User Manual 6
使用说明书 76

Thank you for choosing Philips.

Need help fast?

Read your Quick Use/Start Guide and/or User Manual first for quick tips that make using your Philips product more enjoyable. If you have read your instructions and still need assistance, you may access our online help at ***www.philips.com/support***

PHILIPS

部件名称 Name of the Parts	有毒有害物质或元素 Hazardous/Toxic Substance					
	铅 (Pb,Lead)	汞(Hg, Mercury)	镉(Cd, Cadmium)	六价铬 (Chromium 6+)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
Housing 外壳	O	O	O	O	O	O
DVD loader DVD 光盒	X	O	O	O	O	O
Hard Disk 硬盘	X	O	O	O	O	O
PWBs 电路板组件	X	O	O	O	O	O
Accessories (Remote control & cables) 附件（遥控器， 电源线，连接线）	X	O	O	O	O	O
Batteries in Remote Control (ZnC) 遥控器电池	X	O	O	O	O	O

○：表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363 – 2006 标准规定的限量要求以下。
O: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363 – 2006.

×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363 – 2006 标准规定的限量要求。
X: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363 - 2006.

环保使用期限 Environmental Protection Use Period

此标识指期限（十年），电子信息产品中含有的有毒有害物质或元素在正常使用的条件下不会发生外泄或突变，用户使用该电子信息产品不会对环境造成严重污染或对其人身、财产造成严重损害的期限。

This logo refers to the period (10 years) during which the toxic or hazardous substances or elements contained in electronic information products will not leak or mutate so that the use of these [substances or elements] will not result in any severe environmental pollution, any bodily injury or damage to any assets.

电池标识 Battery labeling logo

环保使用期限 Environmental Protection Use Period

此标识指期限（五年），电池中含有的有毒有害物质或元素在正常使用的条件下不会发生外泄或突变，用户使用该电池产品不会对环境造成严重污染或对其人身、财产造成严重损害的期限。

This logo refers to the period (5 years) during which the toxic or hazardous substances or elements contained in the **battery** will not leak or mutate so that the use of these [substances or elements] will not result in any severe environmental pollution, any bodily injury or damage to any assets.

LASER

Type	Semiconductor laser InGaAlP (DVD) AlGaAs (CD)
Wave length	658 nm (DVD) 790 nm (CD)
Output Power	30 mW(DVD±RW write) 1.0 mW (DVD read) 1.0 mW (CD read)
Beam divergence	84 degrees (DVD) 61 degrees (CD)

'CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 OR 625 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 525p AND 625p DVD PLAYER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.'

Copyright notice
"The making of unauthorized copies of copy-protected material, including computer programmes, files, broadcasts and sound recordings, may be an infringement of copyrights and constitute a criminal offence. This equipment should not be used for such purposes."

Due to the inconsistency of disc formats provided by various disc manufacturers, your DVD system/ player/recorder may require a playability enhancement or upgrade. As DVD technology advances, these enhancement will become common and will be easy to complete.
Go to www.philips.com/support for software upgrade

CAUTION

Use of controls or adjustments or performance of procedures other than herein may result in hazardous radiation exposure or other unsafe operation.

For Customer Use:
Read carefully the information located at the bottom or rear of your HDD/ DVD Recorder and enter below the Serial No. Retain this information for future reference.

Model No. DVDR3588H
Serial No. _____

Index

This product incorporates copyright protection technology that is protected by US patents. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

U.S. Patent Number 4,631,603; 4,819,098; 4,907,093; 5,315,448; and 6,516,132

DOLBY DIGITAL

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

English ----------6

中文（简体） **---------- 76**

English

中文(简体)

English

Table of Contents

General

Special Features 8
Frequently Asked Questions 9
Care and Safety Information 10
- Setup precautions 10
- Cleaning discs 10
- HDD (Hard Disk Drive) handling care 10

General Information 11
- Introduction 11
- Accessories supplied 11
- Region codes 11
- Copyright notice 11

Product Overview

Remote Control ..... 12~13
- Getting started 14

Main Unit 15

Connections

Step 1: Basic Recorder Connections ..... 16~18
- Connecting the antenna cables 16
- Connecting the video cable 17
- Connecting the audio cables 18
- Step 2: Optional Connections ..... 19~23
- Connecting to a Cable Box or Satellite Receiver 19
- Connecting to a VCR or other similar device 20
- Connecting to a VCR and Cable Box/Satellite Receiver 21
- Connecting a camcorder to the front jacks 22
- Connecting a USB flash drive or USB memory card reader 23

Step 3: Installation and Setup ..... 24~28
- Finding the viewing channel 24
- Setting your TV channel programs 24
- GENERAL settings ..... 25~26
- Setting the language 27
- Setting the time & date 27
- LANGUAGE settings 28
- DATE/ TIME settings 28

Control TV programs

Control TV programs 29
- Switching on to TV program 29
- Pause live TV function 29
- Instant Replay function 29

Recording

Before Recording 30
- About temporary HDD storage (Time Shift Buffer) 30
- Accessing the HDD (Hard Disk Storage) Setup Menu 31
- HDD settings (underlined options are the factory default settings) 32
- Default Recording settings 33
- GENERAL settings (underlined options are the factory default settings) 34

Record on Hard Disk ..... 35~36
Recording TV programs 35
- Recording from a DV camcorder ..... 35~36
- Recording from an external device (Camcorder/VCR/ DVD player) 36

Record on DVD Recordable Disc ..... 37~39
- Playable discs ..... 37~38
- Copying from HDD to a recordable DVD 37
- Recording from various sources ..... 38~39

Table of Contents

Timer Recording....39~41
About timer recording....39
Timer recording (manually)....40~41
Changing/ Deleting a timer recording....41

Playback

Playback from Hard Disk....42
Playback your HDD recordings....42
Playback from Disc....43~46
Inserting a disc....43
Starting disc playback....43~46
Additional Playback Features....47~50
Changing to another title/chapter/track....47
Pausing playback and step play....47
Searching forward/backward....47
Zooming in....47
Using Options....48~50

Edit Recordings

Edit Recordings - HDD....51~53
About HDD title edit menu....51
Accessing the HDD title edit menu....51~53
Edit Recordings - Recordable DVD....54~61
About disc edit menu....54
Accessing disc editing menu....54~56
Playing your recordings (DVD±R, DVD-RW) on other DVD players....56
Preparing your DVD-RW disc for more recordings....56
Copy all....56
About DVD title editing....57
Accessing DVD title edit menu....57~58
About video editing....59
Accessing video editing menu....59~61
Setup Menu Options....62~65
Accessing the Setup Menu....62
Video settings....63
Preferences settings....64~65
Audio settings....65

Karaoke Operation

Playing a Karaoke disc,HDD Recording....66

USB Operation

Playing USB file....67
Transfer multimedia files from USB to HDD....67

Other Information

Firmware Upgrade....68
Installing the latest firmware....68
Troubleshooting....69~71
Specifications....72
Options panel symbols/ messages....73
Glossary....74

Special Features

Time Shift Buffer

As soon as you turn on this recorder, the program shown on the TV will be stored into the 'Time Shift Buffer'. It acts as a temporary HDD storage of your recordings. The contents will automatically be deleted, when you turn off this recorder or when you switch it to standby mode.

Instant Replay

You can repeat a scene of a live TV program by pressing ◀ button on the remote control, as often as you like.

To return to the live TV program, press and hold ▶ .

Pause Live TV

A live TV program is now under your control. You can pause the program by pressing **PLAY/PAUSE** button. Resume playback at the scene it was interrupted by pressing the **PLAY/PAUSE** button.

To return to the live TV program, press and hold ▶ .

Direct Recording to DVD

This feature enables you to record content directly on to a recordable DVD disc.

Press the **DVD REC** button on the remote control to activate direct recording and select {Record To: Optical Disc} to record on a DVD.

Direct Recording to HDD

This feature enables you to record content directly on to HDD.

Press the **DVD REC** button on the remote control to activate direct recording and select {Record To: Hard Disc} to record to HDD.

DivX, DivX Certified, and associated logos are trademarks of DivX, Inc and are used under license.

i.Link is also known as 'FireWire' and 'IEEE1394'. This connection is used for the transfer of high bandwidth digital signals as used by digital video (DV) camcorders. It carries all audio and video signals via a single cable.

What kind of disc should I use for recording?

You can only record on both DVD±R,DVD+R/DL and DVD±RW discs. DVD±R/±RW is the most compatible recordable DVD format on the market today. They are fully compatible to most of the existing DVD-Video players and DVD-ROM drives in computers.

What is the capacity of a DVD recordable disc?

4.7GB, or equivalent to 6 CDs. You can store only one hour of recordings on a single disc at the highest quality (HQ High Quality) and about 6 hours recordings at the lowest quality (SLP Super Extended Play.)
The mode of record quality indicates the number of hours that will fit on a single disc.

What is the difference between DVD±R and DVD±RW?

DVD±Rs are "recordable" discs and DVD±RWs are "rewritable" discs. With a DVD±R disc, you can record multiple sessions on the same disc, but when the disc is full, you cannot record any more content on the disc. The DVD±RW disc allows you to record over the same disc repeatedly.

What is DV?

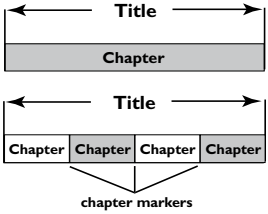
Using DV, also known as i.LINK, you can connect a DV-equipped camcorder to this recorder using a single DV cable for input and output of audio, video, data and control signals.
– This recorder is only compatible with DV-format (DVC-SD) camcorders. Digital satellite tuners and Digital VHS video recorders are not compatible.
– You cannot connect more than one DV camcorder at any one time to this recorder.
– You cannot control this recorder from external equipment connected via the DV IN jack.

Can I copy a VHS tape or DVD from an external player?

Yes, but only if the VHS tape or DVD is not copy-protected.

What are Titles and Chapters?

A DVD disc contains Titles and Chapters, which are similar to the Titles and Chapters of a book. A Title is often a complete movie and is broken down into Chapters, or individual scenes from the movies.



A program is recorded as a single title, it may consist of one chapter or a few chapters within a title, depending on the recording settings.

How do I set up Titles and Chapters?
The recorder will automatically create a new Title each time you start a new recording.
– For DVD recordings, you can edit chapters manually.
– For HDD recordings, you can preset chapters to be automatically inserted at 5/10/20/30-minutes intervals.

What does "finalizing" a disc do?

Finalizing a disc locks the disc so it can no longer be recorded, only required for DVD±R/-RW/+R DLs. It will then be compatible with virtually any DVD player. To close a disc without finalizing it, simply stop recording and eject the disc. You will still be able to record on the disc if there is capacity for more recordings.

How good is the quality of the recording?

There are six modes of record quality levels to choose from, ranging from "HQ" (1 hour recording at high quality) to "SLP" (6 hours recording at Super Long Play quality) on a recordable DVD. Choose the quality level that best suits your purpose and the length of material.

Maximun Rcording Time per disc		
1 hour	HQ(Hight Quality)	1 hour mode
2 hours	SP(DVD quality -Standard Play)	2 hours mode
2.5 hours	SP+(DVD quality- Stand play plus)	2.5 hours mode
3 hours	LP(VHS quality- Long play)	3 hours mode
4 hours	EP(VHS Extended Play)	4 hours mode
6 hours	SLP(VHS quality-Super Long Play)	6 hours mode

Values are estimates only. Parts of the HDD storage capacity will be reserved for the operations of this recorder and time shifting.

Care and Safety Information

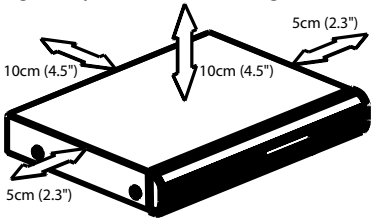
CAUTION!
High voltage! Do not open the device. You run the risk of getting an electric shock.

The machine does not contain any user-serviceable parts. Please leave all maintenance work to qualified personnel.

Setup precautions

Finding a suitable location
– Place the set on a flat, hard and stable surface. Do not place the set on a carpet.
– Do not position the set on top of other equipment that might heat it up (e.g., receiver or amplifier.)
– Do not put anything under the set (e.g., CDs, magazines.)
– Install this unit near the AC outlet and where the AC power plug can be reached easily.

Space for ventilation
– Place the apparatus in a location with adequate ventilation to prevent internal heat build up. Allow at least 10 cm (4.5") clearance from the rear and the top of the set and 5 cm (2.3") from the left and right to prevent overheating.

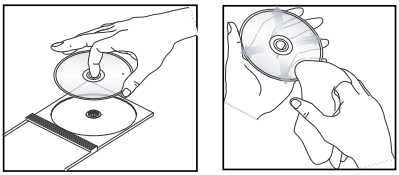


Avoid high temperatures, moisture, water and dust
– Apparatus must not be exposed to dripping or splashing.
– Do not place any sources of danger on the apparatus (e.g., liquid filled objects, lighted candles.)

Cleaning discs

Some problems occur because the disc inside the recorder is dirty (frozen picture, sound disruptions, picture distortions.) To avoid these problems, discs should be cleaned on a regular basis.

To clean a disc, use a micro fibre cleaning cloth and wipe the disc from the center to the edge in a straight line.



CAUTION!
Do not use solvents such as benzene, thinner, commercially available cleaners, or anti-static sprays intended for discs.

HDD (Hard Disk Drive) handling care

The HDD is a fragile piece of device that is easily prone to damage due to its long recording capacity and high speed operation.
– Do not move the unit while it is turned on.
– Do not remove the AC power plug from the power outlet during operation.
– Do not use the unit in excessively hot or humid places. It may cause condensation to form inside the unit.

If the HDD fails, playback and recording will not be possible. In this case, it will be necessary to replace the HDD unit.

WARNING!
The HDD is not a device for storing recorded content permanently. We recommend that you copy the important video content to a recordable DVD as backup.

Introduction

This recorder has a built-in hard disk drive (HDD). You can record up to 204 hours of video in SLP (Super Long Play) record quality mode.

Model	Internal hard disk drive	Maximum recording hours
DVDR3588H	160 GB	204

With both recordable DVD and high capacity HDD in the same recorder, you enjoy the flexibility of keeping recordings on the HDD or copy to a recordable DVD for safekeeping or later viewing.

Furthermore, you can take advantage of features like 'Instant Replay', 'Pause Live TV'; see page 29 for more information.

Before you can start using this recorder, you must complete the basic connections and set-up in three easy steps.

Step 1: Basic recorder connections (pages 16~18)
Step 2: Optional connections for other devices (pages 19~23)
Step 3: Do the basic installation and set-up (pages 24~28)

Please take time to read this user manual before using your recorder. It contains important information and notes regarding operations of the recorder.

Helpful Hints:
– If you have any questions or if problems occur during operation, see the chapter 'Troubleshooting'.
– If you need further assistance, please call the customer support service for your country. The corresponding telephone numbers and e-mail addresses are given in the guarantee booklet.
– Refer to the type plate on the rear or bottom of the product for identification and supply ratings.

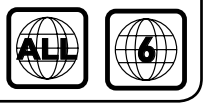
Accessories supplied

– Remote control and batteries
– Audio/video (AV) cables
– RF coaxial cable
– Quick Start Guide
– User Manual

Region codes

DVD films are usually not released at the same time in all regions of the world, thus all DVD players are keyed to a specific region code.

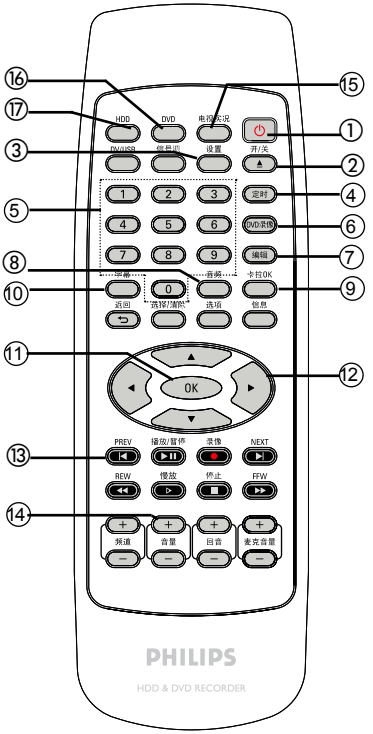
The regional code is shown on the back panel of this device. If the DVD is marked with a different region code, it cannot be played back on this device.

Region	DVD that can be played
China	

Copyright notice

The making of unauthorized copies of copy-protected material, including computer programs, files, broadcasts and sound recordings, may be an infringement of copyrights and constitute a criminal offence. This equipment should not be used for such purposes.

Remote Control



① **STANDBY-ON** ⏻
– Turns on the recorder or switch to standby mode.

② **OPEN/CLOSE**
– Open or close the disc tray.

③ **SETUP**
– Enters/exits the system setup menu.

④ **TIMER**
– Enters/exits the timer recording menu.

⑤ **Numeric keypad**
– Selects a chapter/track number to play.
– Selects the recorder's preset TV tuner channel.

⑥ **DVD REC**
– Activates the 'direct recording to DVD' mode.
– Press again to enter 'direct recording to HDD' mode.

⑦ **EDIT** *(For DVD±R/±RW only)*
– Enters/exits the video editing menu.

⑧ **AUDIO**
– Selects an audio language (DVD, SVCD & some VCD) or an audio channel.

⑨ **KARAOKE**
– Turn on/off the Karaoke mode.

⑩ **SUBTITLE**
– Selects a DVD subtitle language.

⑪ **OK**
– Stores/confirms an entry.
– Confirms a selection.

⑫ ◀ ▶
– Cursor buttons for moving to the left/ right or making a forward/reverse search.
– In time shift mode, use ▶ button to jump forward 30 seconds and ◀ button to jump backward by 10 seconds.
▲▼ : Cursor buttons for moving up/down.

⑬ **PREV& NEXT** ⏮ ⏭
– Skips to previous or next Chapter/Track.

⑭ **VOL +/ –**
– Adjust the volume of the DVD

⑮ **TUNER**
– Go back to TV status.

⑯ **DVD**
– VCD/SVCD disc PBC on/off or go to the DVD disc menu.

⑰ **HDD**
– Enters the HDD content menu.

⑱ SOURCE
– In tuner or DVD REC mode, selects the recorder's video input source from the TV channel or external sources.
(RP-CVBS, RP-SVIDEO, RP-YUV, CH-XXX, FP-CVBS)

⑲ DV/USB
– Switches to 'camera mode' for camcorder connected to DV IN jack. Recording can be made directly onto the HDD/DVD.
– Switches to USB in order to view the input source.

⑳ INFO
– Show the playback status.
– Search for track,time point.

㉑ BACK
– Returns to the previous menu of video CD (VCD) or some DVD.

㉒ OPTIONS
– Open options menu to adjust the status.

㉓ SELECT/CLEAR
– Selects/Removes a track/chapter/file in the program menu.
– Clears a timer entry.
– Switch among recording quality modes.

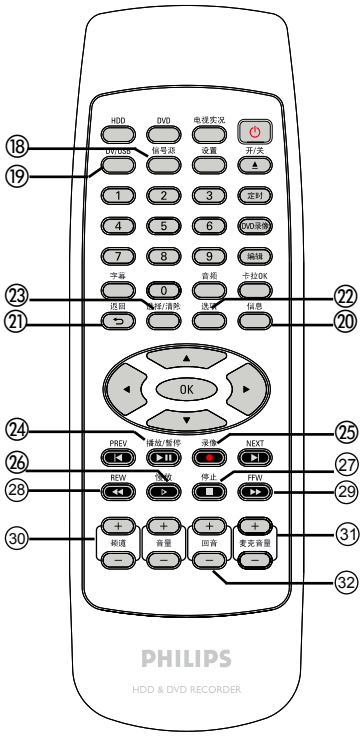
㉔ PLAY/PAUSE ▶ II
– Pauses the playback or recording.
– Pauses 'Live TV' viewing.

㉕ REC ●
– Starts recording the program.

㉖ SLOW ▷
– Slow forward,there are three modes:1/2, 1/4, 1/8.

㉗ STOP ■
– Stops playback/recording.

㉘ REW ◀◀
– Fast reverse, there are five modes 2x,4x,8x,16x,32x.



㉙ FFW▶▶
– Fast forward, there are five modes 2x,4x,8x,16x,32x

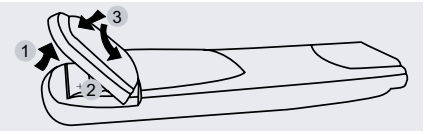
㉚ CH + / –
– While in tuner mode, selects the next/ previous TV channel.

㉛ MIC VOL + / –
– Adjust the microphone volume.

㉜ ECHO + / –
– Adjust the echo volume.

Getting Started

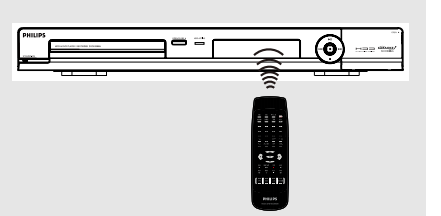
Inserting Batteries



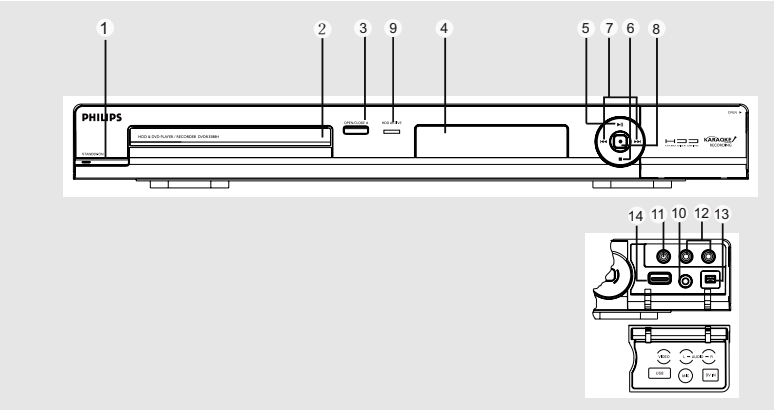
1. Open the battery compartment.
2. Insert two batteries type R03 or AAA, following the indications (+ −) inside the compartment.
3. Close the cover.

CAUTION!
– Remove batteries if they are exhausted or if the remote control will not be used for a long time.
– Do not mix batteries (old and new or carbon and alkaline, etc.).
– Batteries contain chemical substances and should be disposed of properly.

Using the remote control to operate the system



1. Aim the remote control directly at the remote sensor (iR) on the front panel.
2. Select the source you want to control by pressing the **TUNER**, **HDD**,**DVD** or **DV/USB** button on the remote control.
3. Select the desired function (for example **OPEN/CLOSE** ⏏.)



① **STANDBY-ON** ⏻
– Turns on the recorder or switch to standby mode.

② **DISC TRAY**

③ **OPEN CLOSE** ⏏
– Opens/closes the disc tray.

④ **OPTIONS PANEL**
– Show information about the current status of the recorder.

⑤ **PLAY/PAUSE ▶ II**
– Play a disc
– Pauses the palyback or recording.

⑥ **STOP■**
– Stops playback/recording.

⑦ ⏮ ⏭
– Skips to previous or next Chapter/Track.

⑧ **●REC**
– Starts recording the current TV channel or the current video input source.
– Red ring lights up while recording to the HDD or DVD recordable disc is in progress.

⑨ **HDD LIGHT**
– Light up while the HDD playback.
– Light up while the file be transfer.

Jacks behind the flap

OPEN ▶ label at the right hand corner.

⑩ **MIC**
– Input for mic.

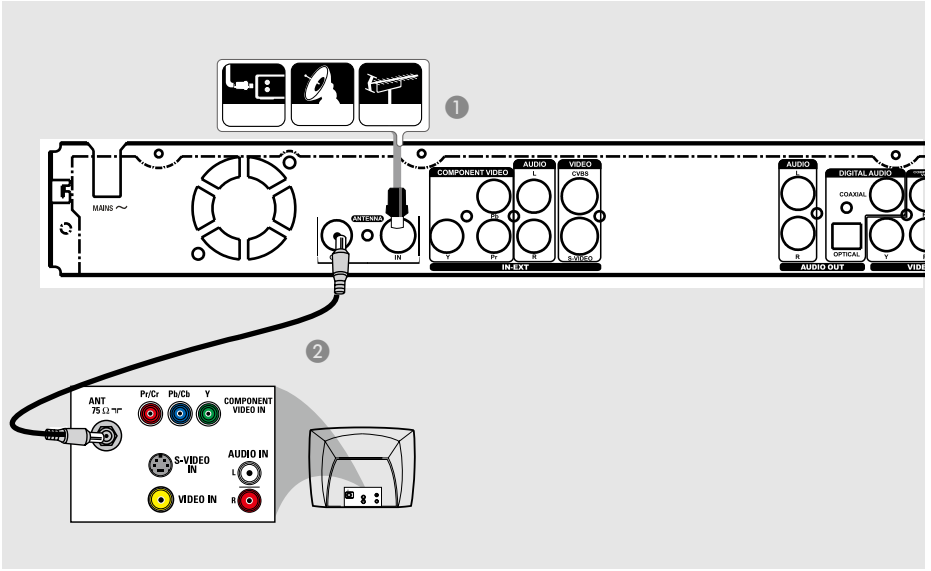
⑪ **VIDEO**
– Video input for camcorders or A/V devices.
In tuner mode, press **SOURCE** on the remote control repeatedly to select 'FP-CVBS' when using this input source.

⑫ **L/R AUDIO**
– Audio input for camcorder or A/V devices.

⑬ **DV IN**
– Input for digital camcorders or other suitable devices using this connector.
Press **DV/USB** on the remote control when using this input source.

⑭ **USB**
– Input for USB flash drive/USB memory card reader.
Press **DV/USB** in order to view the input source.

Step 1: Basic Recorder Connections



Connecting the antenna cables

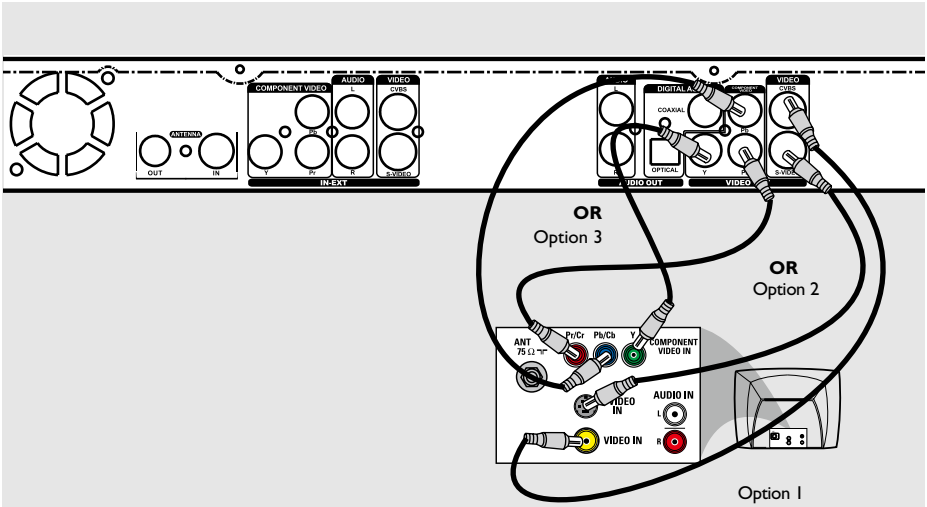
These connections enable you to watch and record TV programs using this recorder. If the antenna signal is connected via a VCR, Cable Box or Satellite Receiver, ensure that these devices are turned on in order to watch or record the cable programs.

- **If you want to connect to a VCR and/or Cable Box/Satellite Receiver**, see page 19~21 for the complete connection to your TV.

1. Connect the existing Antenna/Cable TV signal (or from the Cable Box/Satellite Receiver {RF OUT or TO TV}) to the **ANTENNA IN** jack on the recorder.
2. Use the supplied RF coaxial cable to connect the **ANTENNA OUT** jack on the recorder to the antenna input jack on your TV (VHF/UHF RF IN.)

Helpful Hint:
– Depending on how you have currently connected your TV channel (directly from an off-air antenna or Cable box or VCR), you will have to disconnect some of the cables before you make the above connection.

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.



Connecting the video cable

This connection enables you to view the disc playback from the recorder.
You only need to choose one of the options below to make your video connection.

Option 1: Using Video (CVBS) jack (good picture quality)

- Use the supplied video cable (yellow plug) to connect the **VIDEO OUT [CVBS]** jack on the recorder to the **VIDEO Input** jack (or labeled as A/V In, Video In or Composite) on the TV.

Option 2: Using S-Video jack (excellent picture quality)

- Use an S-video cable (not supplied) to connect the **VIDEO OUT [S-VIDEO]** jack on the recorder to the **S-VIDEO Input** jack (or labeled as Y/C or S-VHS) on the TV.

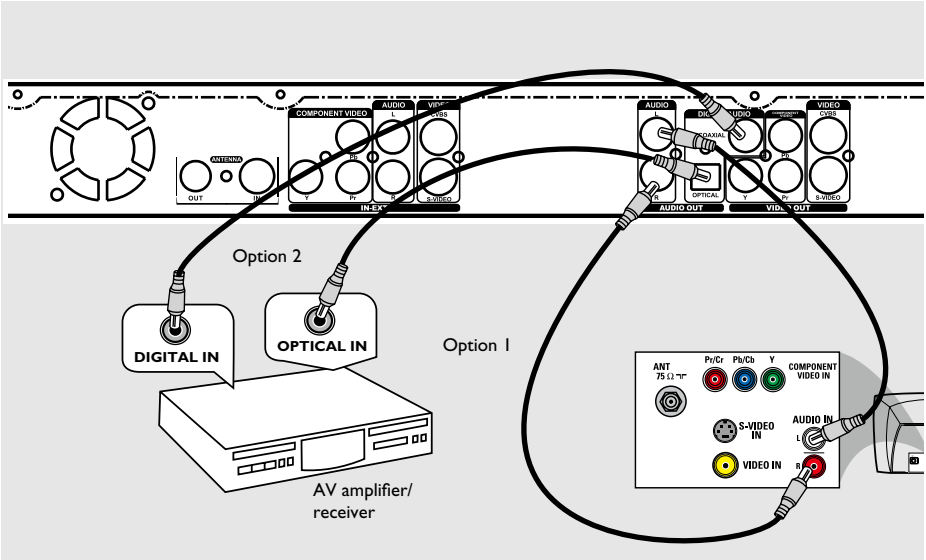
Option 3 : Using Component Video jack (best picture quality)

1. Use the component video cable (red/blue/green - not supplied) to connect the **VIDEO OUT [Y PB PR]** jacks on the recorder to the corresponding component **VIDEO Input** jacks (or labeled as Y Pb/Cb Pr/Cr or YUV) on the TV.
2. If your TV accepts Progressive Scan signal, see page 63 for detailed Progressive Scan set up.

IMPORTANT!
The progressive scan video quality is only available through a YPBPR connection and a progressive TV is required. It is strongly advised to complete the recorder installation first, before enabling the progressive scan feature.

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.

Step 1: Basic Recorder Connections (continued)



Connecting the audio cables

This connection enables you to listen to the sound.

Option 1: Using an Audio cable

You can connect the recorder to a two channel stereo system or receiver in order to enjoy the stereo sound system.

- Use the supplied audio cable (red/white ends) to connect the **AUDIO OUT[L/R]** jacks to these devices with the same input jacks.

Option 2: Using a Coaxial cable/ Optical cable

You can connect the recorder to an AV amplifier / receiver in order to enjoy multichannel surround sound.

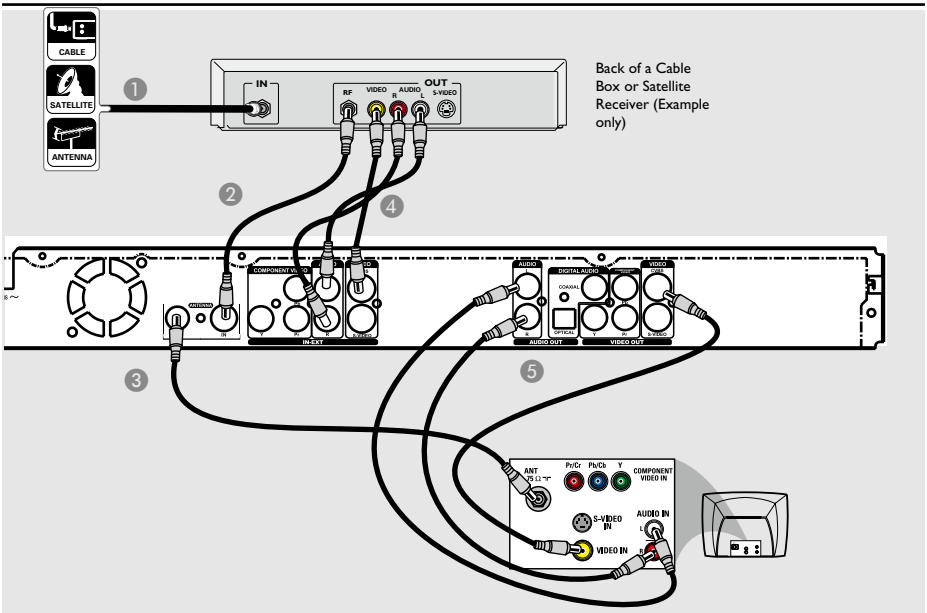
- Use a coaxial cable (not supplied) to connect the **AUDIO OUT [COAXIAL]** jack to the digital input on the AV amplifier/receiver with a digital multichannel sound decoder.

  Before you start operating, set the audio settings accordingly (see page 65.)
  If the AUDIO settings do not match your amplifier's capabilities, the amplifier may produce a strong, distorted sound or no sound at all.

- Use a Optical cable (not supplied) to connect the **OPTICAL** .

  Helpful Hint:
  *– Do not connect your TV's audio output jacks to the **AUDIO L/R (IN-EXT)** jacks on this recorder, this may cause unwanted noise.*

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.



Connecting to a Cable Box or Satellite Receiver

Option 1

If your Cable Box/Satellite Receiver has only an antenna output jack (RF OUT or TO TV),

refer to "Connecting the antenna cables" on page 16 for the complete connection to your TV.

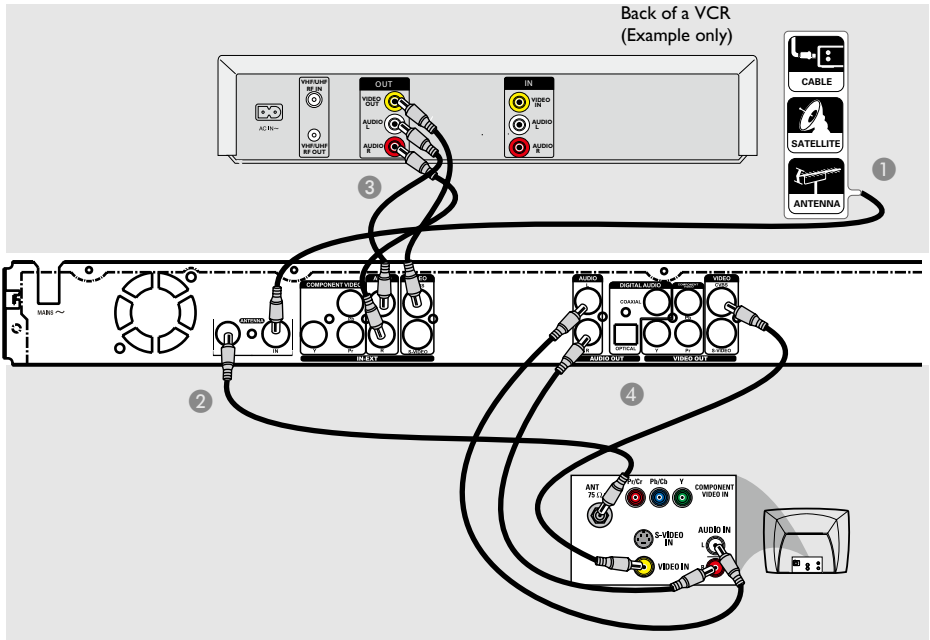
Option 2

If your Cable Box/Satellite Receiver has video/audio output jacks,

1. Keep the existing antenna connection from the Cable Box/Satellite Receiver to your TV.
2. Use the supplied RF coaxial cable to connect the **ANTENNA IN** jack on the recorder to the **RF OUT** jack on the Cable Box/Satellite Receiver.
3. Use a RF coaxial cable to connect the **ANTENNA OUT** jack on the recorder to the **Antenna input** jack on your TV (VHF/UHF RF IN.)
4. Use the audio/video cables to connect the **VIDEO/AUDIO IN** on the recorder to the matching **VIDEO/ AUDIO** output jacks on the Cable Box/ Satellite Receiver.
5. Use the audio/video cables to connect the **VIDEO/AUDIO OUT** on the recorder to the matching VIDEO/AUDIO input jacks on the TV.

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.

Step 2: Optional Connections (continued)



Connecting to a VCR or other similar device

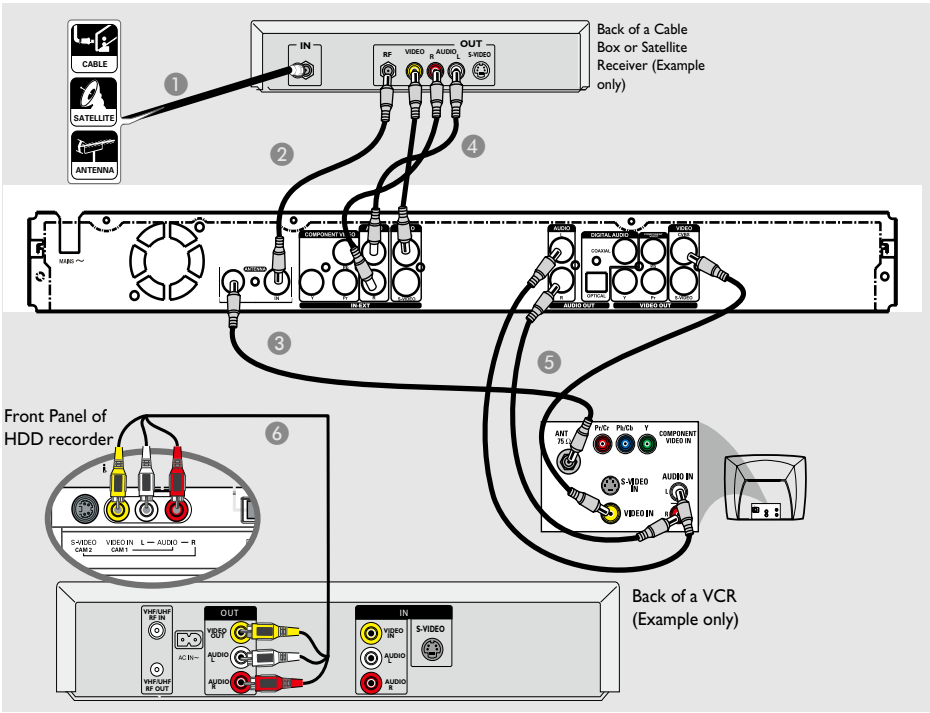
This connection enables you to record from a video tape to the HDD or a DVD recordable disc and allows the VCR to be used for playback if the recorder is turned off.

IMPORTANT!
Your new recorder can replace the VCR for all your recording needs. Just unplug all the connections to your VCR.

1. Connect the Antenna/Cable TV signal to the **ANTENNA IN** jack on the recorder.
2. Use a RF coaxial cable to connect the **ANTENNA OUT** jack on the recorder to the **Antenna input** jack on your TV (VHF/UHF RF IN.)
3. Use the audio/video cables to connect the **VIDEO/AUDIO IN** on the recorder to the matching **VIDEO/ AUDIO** output jacks on the VCR.
4. Use the audio/video cables to connect the **VIDEO/AUDIO -OUT** on the recorder to the matching **VIDEO/ AUDIO** input jacks on the TV.

Helpful Hints:
– Most commercial video cassettes and DVDs are copy-protected and therefore cannot be recorded.
– Connect the recorder directly to the TV. If there is a VCR or an additional device in between, the picture quality may be poor because of the copy protection system built into the recorder.

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.

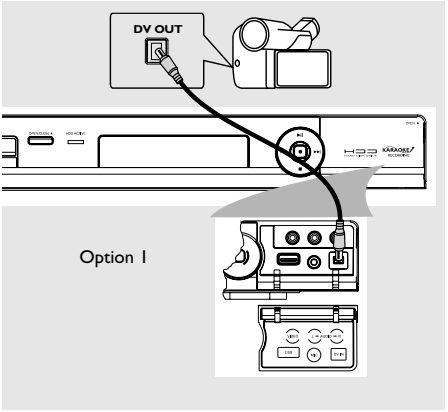


Connecting to a VCR and Cable Box/Satellite Receiver

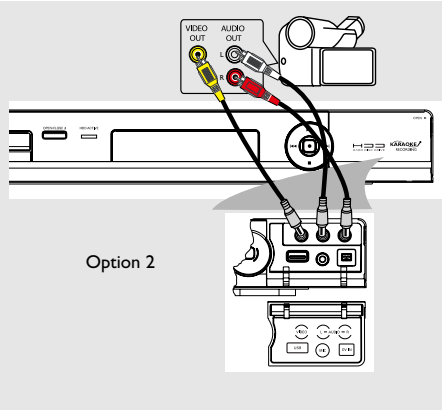
1. Connect the Antenna/Cable TV signal to the **Antenna input** (RF IN) jack on the Cable Box/Satellite Receiver.
2. Use the supplied RF coaxial cable to connect the **ANTENNA IN** jack on the recorder to the **RF OUT** jack on the Cable Box/ Satellite Receiver.
3. Use a RF coaxial cable to connect the **ANTENNA OUT** jack on the recorder to the **Antenna input** jack on your TV (VHF/UHF RF IN.)
4. Use the supplied audio/video cables to connect the **VIDEO/AUDIO IN** jacks on the recorder to the matching **VIDEO/AUDIO** output jacks on the Cable Box/ Satellite Receiver.
5. Use the audio/video cables to connect the **VIDEO/AUDIO OUT** on the recorder to the matching **VIDEO/ AUDIO** input jacks on the TV.
6. Use another set of audio/video cables to connect the **VIDEO IN/L-AUDIO-R** jacks on the front panel of the recorder to the matching **VIDEO/AUDIO** output jacks on the VCR.

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.

Step 2: Optional Connections (continued)



Option 1



Option 2

Connecting a camcorder to the front jacks

You can use the front jacks to copy camcorder recordings. These jacks are located behind the flap on the right hand side and provides convenient connections for a camcorder.

Option 1: Using the DV IN jack

Use this connection if you have a Digital Video or Digital 8 camcorder. The DV jack conforms to the i.LINK standard. It provides the best picture quality.

- Use an i.LINK 4-pin cable (not supplied) to connect the **DV IN** jack on the recorder to the appropriate **DV OUT** jack on the camcorder.

  Before you start operating, press **DV/ USB** on the remote to select 'DV' as the input channel. For recording, see pages 30~41.

  Helpful Hints:
  – The DV IN jack does not support a connection to a Personal Computer.
  – It is not possible to record from the recorder to your camcorder via the **DV IN** *jack on your recorder.*

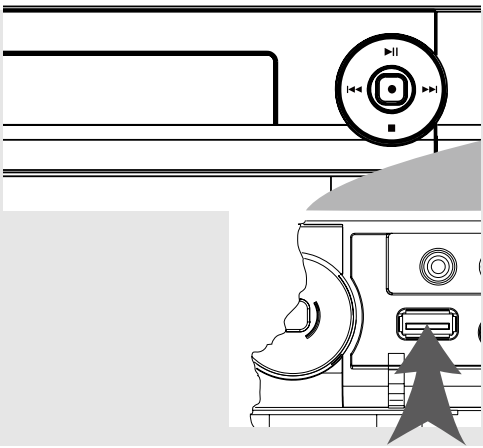
Option 2: Using the VIDEO In jack

You can use the VIDEO connection if your camcorder has only a single video output (Composite Video,CVBS.)

1. Connect the **VIDEO** jack on the front panel of the recorder to the corresponding **Video** output jack on the camcorder.
2. Use an audio cable (red/white ends) to connect the **AUDIO L/R** jacks on the front panel of the recorder to the **Audio** output jacks on the camcorder.

   Before you start operating, press **SOURCE** on the remote control repeatedly to select 'FP-CVBS' as the input channel, depending on your connections. For recording, see pages 35~36.

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.



USB extension cable
(Optional accessory - not supplied)

Connecting a USB flash drive or USB memory card reader

You can only view the contents of a USB flash drive / USB memory card reader through this DVD recorder.

1. Connect the USB flash drive / USB memory card reader directly to the USB port on the front panel (as shown on the above illustration).
2. Press **DV/USB** on the remote control in order to view the files stored in the USB flash drive or USB memory card reader.
3. To stop playback, press **STOP■** or remove the USB flash drive / USB memory card reader from the USB port.

Helpful Hints:
– The USB port only supports the playback of JPEG/MP3/WMA/DIVX files.
– The USB port does not support the connection to other USB devices except for a USB flash drive / USB memory card reader.
– If the USB jack does not fit into the USB port, a USB extension cable is required.

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.

Step 3: Installation and Setup

IMPORTANT!
When you complete the connections and turn on the recorder for the first time, it is advisable that you make several basic setups.

Please see the following pages on using the Setup Menu features to program TV channels, menu language and system clock settings.

Finding the viewing channel

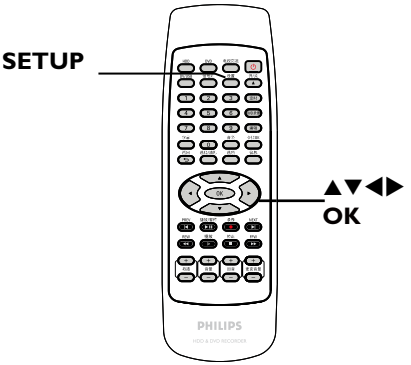
1. Press **STANDBY-ON** ⏻ on the recorder to turn it on.
2. Turn on the TV and set it to the correct video-in channel. You should see the blue DVD background screen.
   ➔ Usually this channel is between the lowest and highest channels and may be called FRONT, A/V IN, VIDEO. See your TV's manual for more details.
   ➔ Or, the TV remote control may have a button or switch that chooses different video source.

Setting your TV channel programs

Before the recorder can start recording any TV channel programs, you need to search for the available TV channels and store them in this recorder.

Note: Ensure that you have successfully made all the required connections to the recorder, TV and Satellite Receiver/ Cable Box (if any) and have switched them on.

Tuner settings can only be changed when the recorder is not playing or recording.

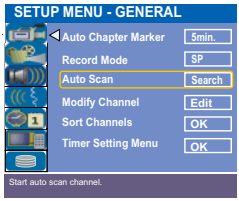


1. Press **SETUP** on the remote control.
   ➔ The setup menu appears on the TV.
2. Use ▲▼ keys to highlight { **SETUP MENU - GENERAL** } and press ▶.

TIPS: Press ▶ to go access the options of an item in the menu.
Press **SETUP** to exit the menu.

GENERAL settings (underlined options are the factory default settings)

Auto Scan



Select to start automatic TV channel programming.

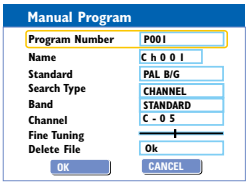
1. Use ▲▼ keys to highlight { **Auto Scan - Search** } and press **OK** .
   ➔ A warning message will appear.
2. Select OK and press **OK** on the remote control

➔Use ▲▼ keys to highlight { **Default TV System** } and press **OK**, Three modes PAL I , PAL D/K and PAL B/G will appear, select correct mode , then press **OK.**

* *Hint: The set does not support NTSC TV signal in.*

➔Use ▲▼ keys to highlight { **CONTINUE** } and press **OK** on the remote control.
➔The automatic TV channel search will start. This process may take several minutes. Once complete, the total number of channels found will appear on the TV.

Manual Program



Select to modify your preset TV channels.

1. Use ▲▼ keys to highlight { **Modify channel - Edit** } and press **OK** .
   The modify channel options appears.
2. Use ▲▼ keys to select one of the options and press ▶ .

{ **Program Number** } – Use **CH+/ CH–** or 0-9 keys to select by the program number for modifying.
The number of the current channel, this item can not be modified
{ **Name** } – Use ▲▼ to select by the channel name for modifying.
{ **Standard** } – Select this to set the system that produces the least distortion of picture and sound. (See chapter "TV System Guide" at the back of this manual for information.)
{ **Search type** } –Use ▲▼to select scan mode, there are two mode: Frequency and channel: To select Frequency mode, the band item will not be available.
{ **Frequency** } – Select this to adjust the frequency of the channel.
– Use ◀▶ keys to search the next frequency or use the **Numeric keypad 0-9** to change the frequency. Press **OK** on the remote control to confirm the setting.
{ **Band** } –The band of this channel, You can select standard or cable.
{ **Channel** } – Use ▲▼to select and edit channel name.
{ **Fine Tuning** }– Select this to fine-tune the TV channel manually if the reception is poor.
– Use ◀▶ keys to fine-tune the frequency.
{ **Delete File**} – Select this to set the channel to be deleted.

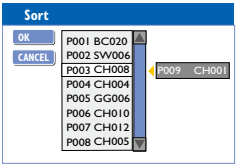
3. To confirm the changes, select OK and press **OK** on the remote control to exit to the previous screen.

TIPS: Press ▶ to go access the options of an item in the menu.
Press **SETUP** to exit the menu.

Step 3: Installation and Setup (continued)

GENERAL settings (underlined options are the factory default settings)

Sort



Select to sort your stored TV channels.

1. Use ▲▼ keys to highlight { **Sort - Channels** } and press **OK**.
   ➔ The list of TV channel programmes appears.
2. Use ▲▼ keys to highlight the channel you want to shift and press ▶.
   ➔ The selected channel will move to the right side of the screen.
3. Use ▲▼ ◀▶keys to shift the TV channel to the desired position, Use ◀ key before selected channels is fixed to current location,press {confirm} . and press **OK** on the remote control.
   ➔ The selected channel will be inserted before the current position.

- To cancel the change, highlight CANCEL and press **OK**.

4. Repeat steps 2~3 until you have sorted all the TV channels you want.

TIPS: Press ▶ to go access the options of an item in the menu.
Press **SETUP** to exit the menu.

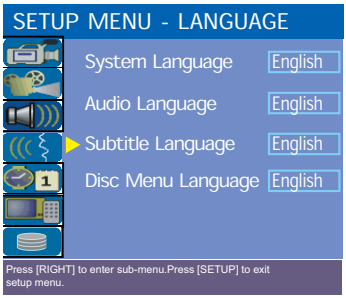
Setting the language

You can select the language for subtitles and audio for DVD playback. For some DVDs, the subtitle/audio language can only be changed via the DVD disc menu. If the selected language is not available on the disc, the disc's default language will be used instead.

The menu language (on-screen options) for the system will remain as you set it.

Menu language settings can only be changed when the recorder is not playing or recording.

1. Press **SETUP**.
   ➔ The setup menu appears.
2. Use ▲▼ keys to highlight { **SETUP MENU - LANGUAGE** } and press ▶ to access the menu.

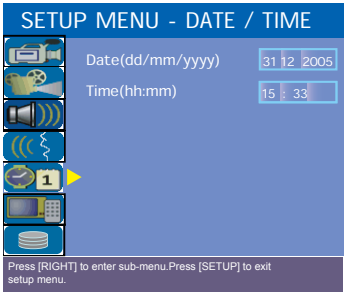


3. Use ▲▼ keys to highlight one of the options and press ▶. See next page for details.
4. Use ▲▼ keys to highlight the desired setting and press **OK** to confirm.

Setting the time & date

If the recorder has not set the time and date correctly, set the clock manually by following the steps below.

1. Press **SETUP**.
   ➔ The setup menu appears.
2. Use ▲▼ keys to highlight { **SETUP MENU - DATE / TIME**} and press ▶ to access the menu.



3. Use ▲▼ keys to highlight one of the options and press ▶ to access the options.
   - If the recorder has not set the time and date correctly, you can further adjust the clock settings, see next page for details.
4. Once complete, press ◀ to return to the previous menu.
5. Press **SETUP** to exit.

TIPS: Press ▶ to go access the options of an item in the menu.
Press **SETUP** to exit the menu.

Step 3: Installation and Setup (continued)

LANGUAGE settings	
System Language	Selects the menu language for this recorder on-screen options.
Audio Language	Selects the preferred audio language for DVD playback.
Subtitle Language	Selects the preferred subtitle language for DVD playback.
Disc Menu Language	Selects the preferred disc menu language for DVD playback

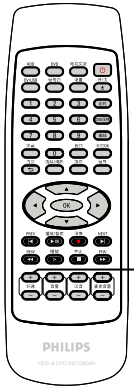
Helpful Hints:
– If the selected audio/subtitle language is not available on the disc, the disc's default setting language will be used instead.
– For some DVDs, the subtitle/audio language can only be changed via the DVD disc menu.

DATE/ TIME settings	
Date (dd/mm/yy)	Use ▲▼ keys or 0-9 number keys to change the date and use ◀▶ keys to select different entry fields, then press **OK** to confirm.
Time (hh/mm)	Use ▲▼ keys or 0-9 number keys to change the time and use ◀▶ keys toselect different entry fields, then press **OK** to confirm.

The basic installation is now complete. This recorder is ready for use!

TIPS: Press ▶ to go access the options of an item in the menu.
Press **SETUP** to exit the menu.

Switching on to TV program



1. Turn on the TV to the correct program number for the recorder (e.g. 'EXT', '0', 'AV').
2. Press **STANDBY-ON** ⏻ to turn on the recorder.
   ➔ If no TV program appears on the screen, press **TUNER** on the remote control.
3. Press **CH +/–** to select a TV channel.
   ➔ The selected TV channel will appear on the status window.
   ➔ The active TV programs will be stored automatically to the temporary HDD storage in this recorder. This information is shown on the Time Shift video bar.

- Each time you press the **INFO** key, the display changes as follows : {Time Shift video bar} -> {Help text} -> {Info off}.

For more information about the temporary HDD storage (Time Shift Buffer,) see next page.

Pause live TV function

You may be interrupted while watching your favourite TV program. You can pause the show by pressing **PLAY/ PAUSE** and pressing **PLAY/PAUSE** to resume playback of the program at the scene it was interrupted. You can 'pause' the live TV broadcast up to a maximum period of 6 hours. It behaves exactly as if you were in control of the live broadcast.

If you want to return to the live TV program, press and hold ▶ .

Instant Replay function

While watching a live TV program, you can press ◀ on the remote control to jump back 10 seconds upon every single press for instant replay.

Press ▶ button to skip forward 30 seconds.

If you want to return to the live TV program, press and hold ▶ .

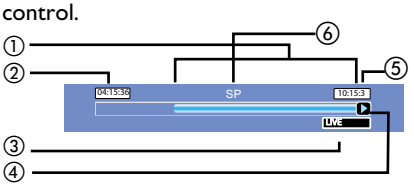
TIPS: Press **INFO** to options the time shift video bar or help text.

English

About temporary HDD storage (Time Shift Buffer)

As soon as you switch on this recorder, the currently selected TV program will be stored in a temporary hard disk storage called '**TSB**' (Time Shift Buffer), (up to 6 hours of programs.)

In tuner mode, the Time Shift video bar will appear on the screen, it indicates the status and timing of the TV programs stored in the temporary HDD storage. You can choose to remove the video bar by pressing the **INFO** key on the remote control.



The Time Shift video bar consists of the following information :

① Content temporarily saved in the time shift buffer.

② The time shift buffer start time. Once it has exceeded 6 hours, the content stored at the beginning will be deleted and the start time will be updated accordingly.

③ Status of source of video input. "LIVE" or the time of current playback being viewed "HH:MM:SS".

④ Icon which shows the status of the time shift buffer.

- – playback of content stored in the time shift buffer.
- – marks the beginning of content recording.
- – marks the current recording in progress.
- – the current screen has been paused from playback. (This will not pause recording.)

◀◀ Fast Reverse 2x, 4x, 8x.

▶▶ Fast Forward 2x, 4x, 8x.

⑤ Display current time.

⑥ Display record quality.

WARNING!

The TV programs stored in the temporary HDD storage will be deleted once it has exceeded the storage buffer or when you press **STANDBY-ON** ⏻ to turn off the recorder.

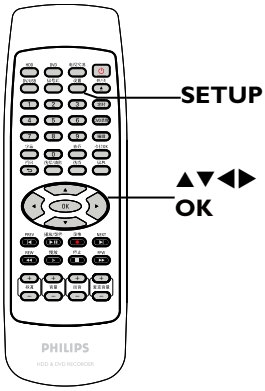
In addition, executing the following actions will also clear the contents in the temporary HDD storage:

- Press **DV/USB** key on Remote Control to flush the TSB.
- Press **SOURCE**, if the option of TSB on setup menu is "Yes",the TSB contents can not be erased; if the option is "No",the content can be erased.
- Use the option { **Delete HDD** } to erase all contents of your hard disk storage. See "Before Recording – HDD Settings" for details.

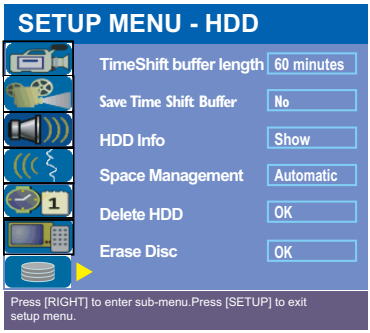
TIPS: Press **INFO** to options the time shift video bar or help text.

Accessing the HDD (Hard Disk Storage) Setup Menu

You can preset the behavior of your hard disk storage of the recorder. This recorder offers various options for easy management of your hard disk recording.



1. Press **SETUP**.
   ➔ The system setup menu appears.
2. Use ▲▼ keys to highlight { **SETUP MENU - HDD** } and press ▶ to access the menu.



3. Use ▲▼ keys to highlight the option and press **OK** to access its options.
4. To exit, press ◀.

TIPS: Press ◀ to go back to previous menu item.
Press **SETUP** to exit the menu.

Before Recording (continued)

HDD settings (underlined options are the factory default settings)

Save Time Shift Buffer

This option allows you to control the behavior of the Time Shift Buffer.

{ **No** } – Select to clear the contents in the temporary HDD storage.

{ **Yes** } – Select to retain the contents in the temporary HDD storage when you switch external video input source.

HDD Info

Press **OK** to options information on:

– Video Pantition(**% remaining)

– Free Recording Time(HQ) **:**:**

– Free Recording Time(SP) **:**:**

– Free Recording Time(SLP) **:**:**

– Date Partition(**% remaining)

– Free Space **GB

Space Management

This option determines how the recorder will respond when the HDD is full of recordings.

{ **Automatic** }–During recording, when the HDD is full, the recorder will proceed to overwrite any unprotected recordings in the HDD. The oldest unprotected recordings will be deleted first.

{ **Manual** } – During recording, when the HDD is full, recording will be stopped. A warning message { **The hard disk is full. Please erase some programs to allow further recording.** } will appear on the screen.

Delete HDD

This option will erase all marked/ unmarked recordings on the HDD. This option is not available when recording to HDD is in progress.

Erase Disk

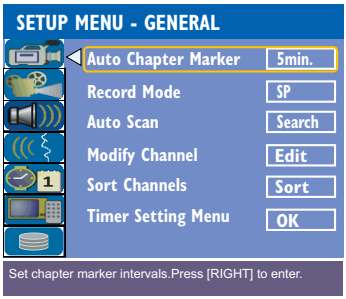
- Press **OK**.
  → A warning message will appear. Select OK to proceed or CANCEL to abort. Once complete, the recorder will restart.
  This option will erase all content on a DVD±RW disc, including those that were not recorded on this recorder. This option is only available in tuner mode.
- Press **OK**.
  → A warning message will appear. Select OK to proceed or CANCEL to abort.

TIPS: Press ◀ to go back to previous menu item.
Press **SETUP** to exit the menu.

Default Recording settings

The default recording settings will allow you to preset auto chapter markers and the preferred mode of recording quality for HDD recording.

1. Press **SETUP** on the remote control.
   ➔ The setup menu appears on the TV.
2. Use ▲▼ keys to highlight { **SETUP MENU - GENERAL** } and press ▶ to confirm.



3. Use ▲▼ keys to select the setting you wish to change and press **OK** to confirm.
   ➔ Instructions and explanation of the options are provided in the following pages.
4. To exit, press **SETUP**.

Auto Chapter Markers

You can insert chapter markers within a title during recording. This allows you to access to specific points on the recording.

1. Use ▲▼ keys to highlight { **Auto Chapter Marker** } and press ▶ to access its options.
2. Use ▲▼ keys to select your preferred setting.
3. Press **OK** to confirm.

Recording Mode

The setting defines the picture quality of recordings and the maximum recording time on the HDD.

1. Use ▲▼ keys to highlight { **Record Mode** } and press ▶ to access its options.
2. Use ▲▼ keys to select your preferred mode of record quality.
3. Press **OK** to confirm.

TIPS: Press ◀ to go back to previous menu item. Press **SETUP** to exit the menu.

Before Recording (continued)

GENERAL settings (underlined options are the factory default settings)

Auto Chapter Markers

You can insert chapter markers within a title during recording. This lets you access to specific points on the recording.

- Press ▶ to access the menu and use ▲▼ keys to select one of the options.

{ **5 mins** } – Chapter markers are inserted during recording at every 5 minutes interval.
{ **10 mins** } – Chapter markers are inserted during recording at every 10 minutes interval.
{ **20 mins** } – Chapter markers are inserted during recording at every 20 minutes interval.
{ **30 mins** } – Chapter markers are inserted during recording at every 30 minutes interval.
{ **Off** } – The feature is disabled.

Record Mode

Select this option to preset your preferred mode of record quality.

- Press ▶ to access the menu and use ▲▼ keys to select one of the options.

Maximun Rcording Time per disc		
1 hour	HQ(Hight Quality)	1 hour mode
2 hours	SP(DVD quality -Standard Play)	2 hours mode
2.5 hours	SP+(DVD quality- Stand play plus)	2.5 hours mode
3 hours	LP(VHS quality- Long play)	3 hours mode
4 hours	EP(VHS Extended Play)	4 hours mode
6 hours	SLP(VHS quality-Super Long Play)	6 hours mode

Values are estimates only. Parts of the HDD storage capacity will be reserved for the operations of this recorder and time shifting.

Auto Scan

Select to make automatic TV channel programming.
See section "Step 3: Installation and Setup – Setting your TV channel programs".

Modify Channel

Select to modify your preset TV channels.
See section "Step 3: Installation and Setup – Setting your TV channel programs".

Sort Channel

Select to sort your stored TV channels.
See section "Step 3: Installation and Setup – Setting your TV channel programs".

TIPS: The underlined option is the factory default setting.
Press ◀ to go back to previous menu item. Press **SETUP** to exit the menu.

IMPORTANT!
Unrecordable pictures
Television programs, films, video tapes, discs, and other materials may be copy-protected and therefore cannot be recorded on this recorder.

Recording TV programs

Follow the instructions below to record TV programs onto the HDD, where you can store for future viewing or copy to a DVD recordable disc if required.
You may have two options to save the current programs stored in the time shift buffer onto HDD

Option1: To save partial segment only

1. Use I◀ ▶I keys to search for the beginning of the scene in the bar.

2. Press **REC●** on the remote control to start recording.

3. Use I◀ ▶I keys again to search for the ending of the scene in the bar

   ➔ to cancel, press **SELECT/CLEAR**.

4. Press **STOP■** on the remote control to save and finish recording

   ➔ Warning: All the past unsaved TSB segments will be flushed

Option2: To save entire time shift buffer to HDD.

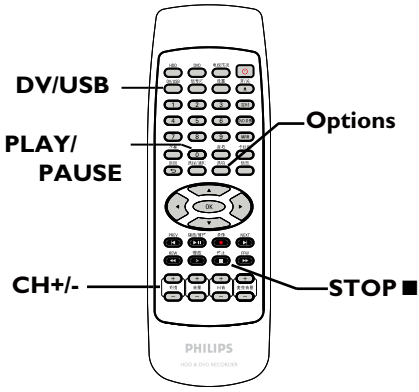
- Press and hold **REC●** button for over 3 seconds.

➔Warning : Whole TSB will be flushed

To record directly to a DVD recordable disc, see page 37-39.

Recording from a DV camcorder

You can record video directly from a connected DV camcorder onto the HDD, where you can edit it easily and copy to a recordable DVD if required.



IMPORTANT!
– If you press DV/USB on the remote control, the unmarked contents in the TSB will be removed.

TIPS: Set the appropriate mode of record quality for HDD recording. The same record quality will be transferred to HDD or a recordable DVD, see page 37.

Record on Hard Disk (continued)

1. Connect the DV camcorder to the **DV IN** jack on the front panel of this recorder.
2. Find the footage on the DV camcorder that you want to start recording from and set the camcorder to pause mode.
3. Turn on the TV to the correct program number for the recorder (e.g. 'EXT', '0', 'AV'.)
4. Turn on the recorder and press **DV/ USB** twice on the remote control.
   ➔ An information box appears.

   System State: DV DV Stage: NO DV
   Record to Hard Disc : As SP(25min /GB)
   Elapsed Time: 00:00:00 Remaining Time: 31:25:25

   Press **SELECT/CLEAR** on the remote control repeatedly to change the mode of record quality.
5. Press **REC●** to start recording and press the **PLAY** button on the DV camcorder to start playback.

- To pause the recording, press **PLAY/ PAUSE**.
  To resume recording, press **PLAY/ PAUSE** or **REC●** again.

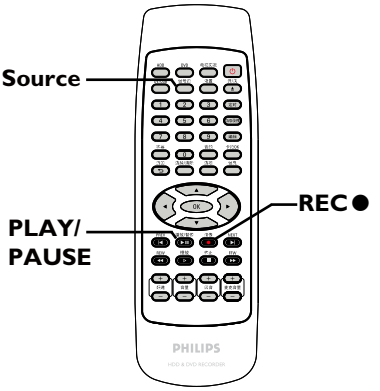
6. To stop recording, press **STOP■**.
   ➔ A new title will be created when you begin another recording.

   To record directly to a DVD recordable disc, see page 37.

Recording from an external device (Camcorder/VCR/ DVD player)

A copy protection system has been built into this recorder to prevent the transfer of data from copy protected DVDs or other copy protected material onto the recordable DVD.

Note: Set the preferred mode of record quality before proceeding, see "Before Recording - Default Recording Setting



1. Connect the external device to this recorder (see pages 17 ~ 21).
2. Turn on the TV to the correct program number for the recorder (e.g. 'EXT', '0', 'AV').
3. Press **STANDBY-ON** ⏻ to turn on the recorder.
   ➔ If no TV program appears on the screen, press **TUNER** on the remote control.
4. Press **SOURCE** repeatedly to select the correct input channel that matches the connected jack of the device.

{**CAM 1** } : VIDEO jack on the front.

{**R CVBS** }: video jack on the back.

{**R Y/C**}: S-video jack at the back.

{**R YUV**}: YUV jack at the back.

{**CHXXX**}: Antenna In at the back.

5. Press **REC●** to start recording.
   ➔ You can also press **REC●** repeatedly to increase the recording time in 30-minute increments.
6. Start playback on the connected device. To pause the playback on the device, press **PLAY/PAUSE.**
   To continue, press **PLAY/PAUSE** again.
   ➔ You can use this function to avoid any unwanted recording .
7. To stop the recording before the scheduled ending, press **STOP■**.

   To record directly to a recordable DVD disc, see page 37

TIPS: Set the appropriate mode of record quality for HDD recording. The same record quality will be transferred to HDD or a recordable DVD, see page 37.

IMPORTANT!

Unrecordable pictures

Television programs, films, video tapes, discs, and other materials may be copy-protected and therefore cannot be recorded on this recorder.

Playable discs

Using this recorder, you can play and record on the following discs:

Recording and Playback

DVD±RW
(DVD ReWritable); can be recorded on and overwritten repeatedly.

DVD±R
(DVD Recordable); can be recorded on only once.

DVD + R DL

Playback only:

DVD Video
(Digital Versatile Disc)

CD-RW (CD-ReWritable) Audio/ MP3/ JPEG contents

CD-R (CD-Recordable) Audio/ MP3/ JPEG contents

Audio CD (Compact Disc Digital Audio)

MP3-Disc

Video CD
(Formats 1.0, 1.1, 2.0)

Super Video CD

DivX Disc
(DivX 3.11, 4.x, 5.x)

IMPORTANT!

– If the inhibit icon (Error) appears on the TV screen when a button is pressed, it means the function is not available on the current disc or at the current time.

– DVD discs and players are designed with regional restrictions. Before playing a disc, make sure the disc is for the same region as your player.

– Do not push on the disc tray or put any objects other than discs on the disc tray. It may cause the disc player to malfunction.

Copying from HDD to a recordable DVD

You can copy a recorded title(s) from the HDD (hard disk drive) to a recordable DVD disc.

The time taken to copy content from the HDD to a recordable DVD depends on the record quality of the HDD recordings.

It is not possible to change the mode of record quality during the copying process. As such, it is important that you choose the appropriate record quality when you first set up the recording to the HDD.

The copying process is done at a higher speed than the recording.

TIPS: Ensure that there is sufficient space available on the DVD±R before recording.
You have to finalize the DVD±R before it can be played on other players, see page 56.

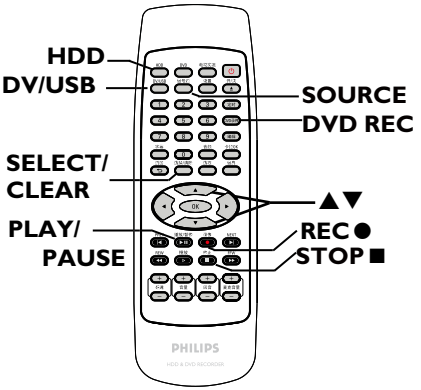
Record on DVD Recordable Disc (continued)

硬盘刻录质量	4.7GB的DVD+R/+RW 碟片能够刻录的小时数
HQ (高品质)	1
SP (标准播放)	2
SP+ (标准播放加上)	2.5
LP (长时间播放)	3
EP (加长延长播放)	4
SLP (超长播放)	6

The following information will be stored on the disc :
– Title/name of recording
– Date of recording
– Time of recording
– Record quality mode/ length of recording
– Index picture of title

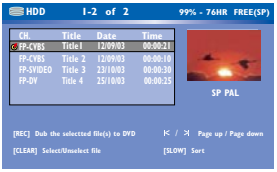
Recording from various sources

You can choose to copy your recordings from the HDD or an external device to a DVD recordable disc. The storage capacity of the disc depends on the record quality that was selected for the recording in the recorder or device, see page 34.



Recording from the HDD

1. Turn on the TV to the correct program number for the recorder (e.g. 'EXT', '0', 'AV').
2. Insert a DVD recordable disc into the recorder.
3. Press **HDD** on the remote control.
   ➔ The HDD content menu appears on the screen.



4. Use ▲▼ keys to highlight the title/titles and press to SELECT/CLEAR mark the titles to copy to DVD.

- If you have many HDD title recordings, use ⏮ (fast reverse) or ⏭ (fast forward) to view the previous/ next page of HDD titles for selection.

5. Press **REC●** on the remote control.
   ➔ The recorder will go to tuner mode and recording to the DVD recordable disc will begin. The dubbing icon will be seen at the top left corner of the screen.
   ➔ Once complete, the icon will not be shown.

Helpful Hint:
*– During selection of recordings for copying, press **SLOW** on the remote control to sort according to the titles of recording.*
– Video and data file types(such as DIVX,JPG,MPEG etc) can not be recorded on the same disc.

Recording from an external device/ VCR/ DV Camcorder

1. Turn on the TV to the correct program number for the recorder (e.g. 'EXT', '0', 'AV').

TIPS: Ensure that there is sufficient space available on the DVD±R before recording.
You have to finalize the DVD±R before it can be played on other players, see page 56.

2 Insert a DVD recordable disc into the recorder.

3 Press **DVD REC** to switch to direct recording mode.
➔ An information box appears on the

```
System State: Stop
Record to Optical Disc As SP(25min/GB)
Elapsed Time:  00:00:00 Remaining Time: 02:25:25
```

4 Press **SOURCE** repeatedly to select from the various options:
{ **CAM 1**}
Input source from the device connected to the **VIDEO** and **AUDIO L/R** jacks on the front panel.
{ **R CVBS** }
Input source from the device connected to the **VIDEO IN [CVBS]** and **AUDIO IN [L, R]** jacks on the back panel.
{ **R Y/C** }
Input source from the device connected to the **VIDEO IN [S-VIDEO]** and **AUDIO IN [L, R]** jack on the back panel.
{ **DV**}
Input source from the device connected to the DV jacks on the front panel.
{ **R YUV** }
Input source from the device connected to the **VIDEO IN [Y PB PR]** and **AUDIO IN [L, R]** jack on the back panel.
{ **CH-XXX**}
Input source from TV programs.
OR
● Press **DV/USB** to record from the DV camcorder connected to the DV IN jack on the front panel.

5 Press **SELECT/CLEAR** to toggle between the different modes of record quality.

Maximun Rcording Time per disc		
1 hour	HQ(Hight Quality)	1 hour mode
2 hours	SP(DVD quality -Standard Play)	2 hours mode
2.5 hours	SP+(DVD quality- Stand play plus)	2.5 hours mode
3 hours	LP(VHS quality- Long play)	3 hours mode
4 hours	EP(VHS Extended Play)	4 hours mode
6 hours	SLP(VHS quality-Super Long Play)	6 hours mode

Values are estimates only. Parts of the HDD storage capacity will be reserved for the operations of this recorder and time shifting.

6 Press **REC ●** on the remote control.
➔ Recording to the DVD recordable disc will be begin.

7 To stop recording, press **STOP ■** on the remote control.

Helpful Hint:
– All title selections and settings will be lost once you replace or remove the recordable DVD.

To edit your recordings on the DVD recordable disc, see pages 54~61.

About timer recording

Use '**Timer Recording**' to automatically start and stop a recording at a later date/ time. The recorder will tune to the right program channel and begin recording at the specified time.

With this recorder, you can pre-program up to **20 recordings**.

To make a timer recording, your recorder needs to know:
– The date you want to make the recording.
– The recording input source.
– The start and stop time of the recording.
– The mode of record quality, see page 34.

Helpful Hint:
During standby, the appliance will be started at 3 minutes before presetted recording time point, and will automaticaly start recording once presetted time is available. After the recording come to end, the unit can save the recorded contents automatically and enter standby.

TIPS: Ensure that there is sufficient space available on the DVD±R before recording.
You have to finalize the DVD±R before it can be played on other players, see page 56

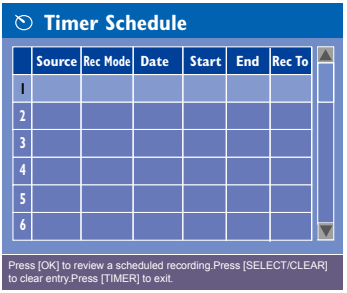
Timer Recording

Timer recording (manually)

1 Turn on the TV power. Select the correct Video In channel at the TV.

- **If you are recording directly to a DVD disc**, insert the DVD recordable disc before proceeding to step 2.

2 Press **TIMER** on the remote control.
➔ The timer schedule list appears.



3 Use ▲▼ keys to highlight the next available empty slot and press **OK**.
➔The timer editor menu appears.

4 Use ▲▼ keys to select an entry in the menu and press ▶ to enter its options.

{ **Source** }
– Use ▲▼ keys to select the recording input source.

{ **Rec To** }
– Use ▲▼ keys to select { **HDD** } or { **DVD** } to enter the recording destination.

{ **Rec Mode** }
– Use ▲▼ keys to select your option.

{ **Mode** }
– Use ▲▼ keys to select { **Once** }, { **Daily** } , { **Weekly** } { **Weekend** }, { **Mon-Fri** }, { **Mon-Sat** } recordings.

{ **Date** }
– Use ▲▼ keys or the **numeric keypad 0-9** to enter the date for recording.

{ **Start** }
– Use ▲▼ keys or the **numeric keypad 0-9** to enter the start time of recording.

{ **End** }
– Use ▲▼ keys or the **numeric keypad 0-9** to enter the end time of recording.

{ **Title** }
– Use ▲▼◀▶ keys to select the alphanumeric options to enter the title of your recording.

5 Select OK in the menu and press **OK**.
➔ The system will store the timer entry and return to the timer schedule list.

- To cancel the above timer setting, press **SELECT/CLEAR** on the remote control.

6 Press **TIMER** to exit the menu.

7 Press **STANDBY-ON** ⏻ to turn off the recorder.
➔ If the recorder is not in standby mode, a warning message will appear three minutes before the recording starts.

Helpful Hint:
– Set the timer recording one minute ahead of the program's start time. This helps ensure the entire program is recorded as the disc requires about 30 seconds to prepare for recording.

TIPS: Set the appropriate mode of record quality for HDD recording, the same record quality will be transferred from HDD to a recordable DVD.

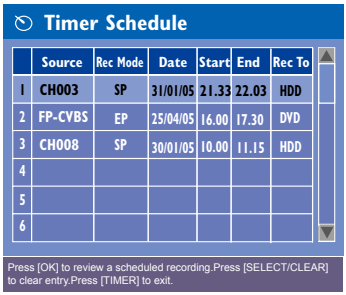
Setting a timer recording from an external Cable Box/ Satellite Receiver

If you have a Satellite Receiver/Cable Box connected to this recorder via the VIDEO (CVBS) (see page 21,) follow the steps described below to program the recordings.

1. Select the channel you want to record at the Satellite Receiver/Cable Box.
2. Program the recording with the required information. Follow the steps 1~4 of "Timer Recording (manually)" on the previous page.
3. Keep the Satellite Receiver/Cable Box switched on for the recording.
4. Press **STANDBY-ON** ⏻ to turn off the recorder.

Changing/ Deleting a timer recording

1. Turn on the TV power. Select the correct Video In channel at the TV.
2. Press **TIMER** on the remote control.
   ➔ The timer schedule list appears.


Timer Schedule
Source Rec Mode Date Start End Rec To
1 CH003 SP 31/01/05 21.33 22.03 HDD
2 FP-CVBS EP 25/04/05 16.00 17.30 DVD
3 CH008 SP 30/01/05 10.00 11.15 HDD
4
5
6
Press [OK] to review a scheduled recording.Press [SELECT/CLEAR] to clear entry.Press [TIMER] to exit.

3. Use ▲▼ keys to select a timer program which you want to change/ delete.
4. **To delete the timer entry**, press **SELECT/CLEAR** on the remote control.
5. **To change the timer schedule**, press **OK** to enter the timer editor menu of the selected timer program.

6. Select the entry field and make the necessary changes.
7. Once complete, select OK in the menu and press **OK** to save the changes.
8. Press **TIMER** to exit the menu.

Helpful Hint:
– The manual recording is priority when it conflict with time recording, the task of time recording will be deleted automatically.

TIPS: Set the appropriate mode of record quality for HDD recording, the same record quality will be transferred from HDD to a recordable DVD.

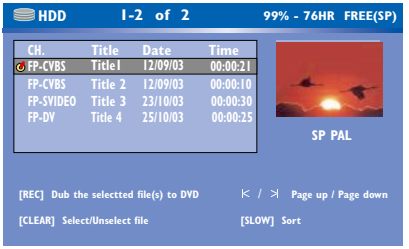
Playback from Hard Disk

Playback your HDD recordings

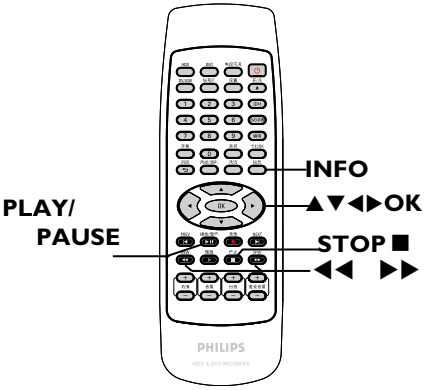
Each recording stored on the HDD appears in the HDD content menu with an index picture.

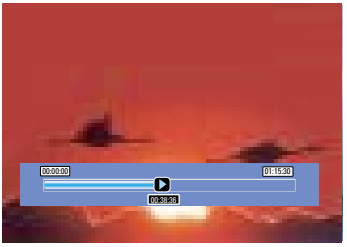
1. Press **HDD** on the remote control.
   ➔ The HDD content menu appears.
2. Use ▲▼ keys to highlight a title and press **OK** on the remote control to start playback.

- If you have many HDD title recordings, use |◀(fast reverse) or ▶|(fast forward) to view the previous/ next page of HDD titles for selection.



3. During playback, you can use the following keys on the remote control to access additional playback features.





◀◀ ▶▶
– move to the beginning or previous/ next chapter.
– hold down this button to start fast backward/ forward search, press the button again to increase the search speed.

▶
– jump forward by 30 seconds.

◀
– jump backward by 10 seconds.

OK
– starts playback

PLAY/PAUSE ❚❚
– view a still picture.

INFO
– display current time
– display status of input source
– display the instruction for selectd option.

STOP ■
– stop playback.

Inserting a disc

1. Press **STANDBY-ON** ⏻ to turn on the recorder.
2. Press **OPEN CLOSE** ⏏ on the front of the recorder.
   ➔ The disc tray opens.
3. Carefully place the disc onto the tray with the label facing down, then press **OPEN CLOSE** ⏏.
   ➔ Make sure the disc label is facing up. For double-sided discs, load the disc as indicated on the label.
4. Turn on the TV power. Select the correct Video In channel at the TV (see page 29.)
5. Playback will start automatically or a dialog will appear on the TV (see next page.)

Starting disc playback

- Playback will begin automatically. If the disc has its own menu this will be loaded, otherwise the recorder will launch an index screen.
- If the pin code entry dialog appears on the TV, this means that the parental control was activated for the inserted disc (see page 64.)
  ➔ Use the **Numeric keypad 0-9** on the remote control to enter your pin code (password.)
- For more playback features, see pages 47~50 "Additional Playback Features".

Playing a DVD video disc

The DVD disc is usually formatted with a disc menu. You may have to make your selection (e.g., subtitle or audio language) within the disc menu.

1. Insert a DVD disc.

If the disc menu appears on the TV

- Use the **numeric keypad 0-9** to input your selection or use ◀ ▶ ▲ ▼ keys to select a play option and press **OK** to start playback.

2. To stop playback, press **STOP** ■.

TIPS: Some discs cannot be played on this recorder due to the configuration and characteristics of the disc, or due to the condition of recording and authoring software.

Playback from Disc (continued)

Playing a (Super) Video CD

(Super) Video CDs may feature 'PBC' (Play Back Control.) This allows you to play the video CDs interactively, following the menu on the options.

1. Insert a (Super) Video CD.

If the 'PBC' is on, the disc index menu will appear on the TV

2. Use **numeric keypad 0-9** to input your selection or to select a play option.

- Press **BACK** on the remote control to return to the previous menu.
- To turn on/off the Playback Control mode, press **OPTIONS** key on the remote control twice during playback to access the playback menu options.
  ➔ Use ▲▼ keys to select { **PBC** } and press ▶ to select either { **PBC On** } or { **PBC Off** }.
- Press **DVD** on RC to access{ **PBC On** }or{ **PBC Off** }.

3. To stop playback, press **STOP** ■.

Playing an audio CD

1. Insert an audio CD.
   ➔ Playback starts automatically.
2. To stop playback, press **STOP** ■.

Playing a DVD±R/±RW disc

1. Insert a recorded DVD±R/±RW disc.
   ➔ The Index Picture screen appears.
2. Use ▲▼ keys to select a title and press **OK** to start playback.
3. To stop playback, press **STOP** ■.

Helpful Hint:
– If the message 'BLANK' appears on the options panel, this means that there are no recordings on this disc.

Playing a DivX disc

This recorder supports the playback of DivX movies which you can copy from your computer onto a DVD±R/±RW/+R DL disc.

1. Insert a DivX disc.
   ➔ The disc content menu appears.

- If the DivX movie contains external subtitles, you have to first select the subtitle file from the file list.
  Use ▲▼ keys to select the files for playback and press **OK** to confirm your selection.

2. Press **OK** to start playback.

- During playback, you can press **OPTIONS** on the remote control to options the disc content menu.

Helpful Hints:
– Subtitle files with the following filename extensions (.srt, .smi, .sub, .txt, .ssa, .sas) are supported.
– It is normal to experience an occasional pixelation during MPEG-4/DivX playback due to poor encoding of the content.
– Support DivX 3.11/4/5.x.

TIPS: Some discs cannot be played on this recorder due to the configuration and characteristics of the disc, or due to the condition of recording and authoring software.

Playing a MP3 disc

1. Insert a MP3 CD.
   ➔ The disc content menu appears.

Note: It may require a longer time for the recorder to options the disc content menu on the TV due to the large number of songs/pictures compiled into one disc.

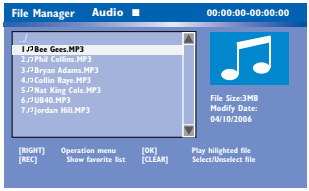
2. Use ▲▼ keys to navigate within the menu and press **OK** to access the folder/ album.
3. Use ▲▼ keys to select the track/file to play.
   - To go to the previous menu, press **BACK** .
4. To create a playlist, highlight the track/file and press **SELECT/CLEAR**.
5. Press again right key to enter main menu and select Preference option,then press **OK** to confirm. Press **REC** key or select"Preference list" to playback preferred options.
6. During playback, you can press ⏮ ⏭ to select the next/previous track.
7. To stop playback, press **STOP** ■.

Helpful Hints:
– Only the first session of a multi-session CD will play back.
– It is normal to experience an occasional "skip" while listening to your MP3 disc.

Playing a picture disc (or musical slide show)

You can play automatically JPEG pictures in the selected roll automatically one after the other.

1. Insert a JPEG picture disc (CD, CD-R/RW, DVD.)
   ➔ The disc content menu appears.
2. Use ▲▼ keys to navigate within the menu and press **OK** to access the folder/ album.
3. To create a playlist, highlight the track/file and press **SELECT/CLEAR**.
   ➔ Press again right key to enter main menu and select Preference option,then press **OK** to confirm. Press **REC** key or select"Preference list" to playback preferred options.
   ➔ To remove the track/file from the playlist, press **SELECT/CLEAR** once.
4. You can select to playback from the original disc content or from the playlist, just use ◀▶ keys to move to the correct screen before selecting the track/file for playback.



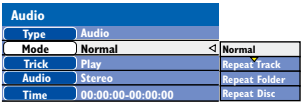
If the disc contains MP3 music and JPEG picture files, you can start a musical slide show playback,

- Select an MP3 file and press **OK** to start playback, then select a picture file in the menu and press **OK** to start the musical slide show playback.

5. During playback, you can press **OPTIONS** on the remote control to access various settings for the slide show playback.

TIPS: Some discs cannot be played on this recorder due to the configuration and characteristics of the disc, or due to the condition of recording and authoring software.

Playback from Disc (continued)



6 To stop playback, press **STOP** ■.

Playable JPEG picture disc
This recorder can read JPEG pictures stored on a CD-ROM, Picture CD, or DVD.

File format:
– The file extension has to be '.JPG,' '.JPE' or '.JPEG.'
– It can only options DCF-standard still pictures or JPEG pictures e.g. TIFF. It cannot play back moving pictures, Motion JPEG, progressive JPEG and other formats, or pictures in formats other than JPEG, or pictures associated with sound.
– It may require a longer time for the recorder to options the disc content on the TV due to the large number of songs/ pictures compiled onto one disc.

Playing from a USB flash drive / USB memory card reader

This USB port only supports the playback of JPEG/MP3/WMA/DIVX files.

1 Insert a USB flash drive or USB memory card reader into the USB port.
➔ A message will appear on the TV if the device is detected.

2 Press **DV/USB** on the remote control to access the data in the drive.
➔The content menu appears on the TV.

3 Use ▲▼ to navigate within the menu and select the file you want to access, then press **OK**.
➔ more playback information, refer to the chapters on MP3 and picture disc playback in this user manual.

4 To stop playback, press **STOP** ■ or remove the USB flash drive / USB memory card reader from the USB port.

TIPS: Some discs cannot be played on this recorder due to the configuration and characteristics of the disc, or due to the condition of recording and authoring software.

Changing to another title/ chapter/track

When a disc contains more than one track, title or chapter, you can change to a different track, title or chapter as follows.

During playback,

- Press ▶I to go to the next title/chapter/ track.
- Press I◀to return to the start of the previous title/chapter/track.
- Press **OPTIONS** on the remote control to switch.

Pausing playback and step play

1. During playback, press **PLAY/PAUSE** to pause playback and display a still picture.
2. Press **OPTIONS** , Use ▲▼ keys to highlight { **Trick Mode - Step** } and press **OK** to move one frame forward.
3. To resume normal playback, press **PLAY/PAUSE**.

Searching forward/backward

You can fast forward or fast reverse a disc at two, four, eight,sixteen or thirty two times the normal playback speed.

1. During playback, press and hold ◀◀(fast reverse) or ▶▶(fast forward) to switch to the search function.
2. During disc playback, press **OPTIONS** to access the playback menu.
   ➔ Use ▲▼ keys to highlight { **Trick Mode - Play** } and press ▶ to access the search speed options:
   – FREV x2, FREV x4, FREV x8, FREV x16, FREV x32, FFWD x2, FFWD x4, FFWD x8, FFWD x16, FFWD x32, Slow FWD x1/2, Slow FWD x1/4, Slow FWD x1/8.
   ➔ The sound will be muted.
3. To resume normal playback, press ▶.

Zooming in

A/V files type:

1. press "**OPTIONS**" to show setup menu.
2. Press **UP/DOWN** button to enter Enlarge option to set its type or "Off"
3. Press **"OPTIONS"** again to hide the setup menu.

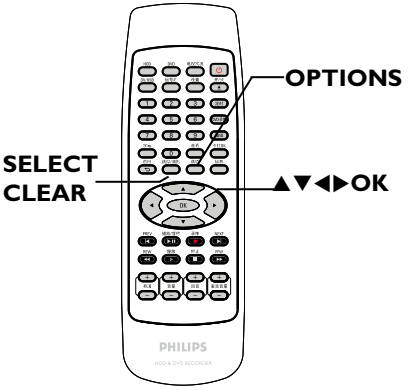
PIC files type:

1. Same as operations of A/V files type.
2. Press **REW** and **FFW** to set the type of enlarged file,and use **up/down/left/right** to rotate pictures.

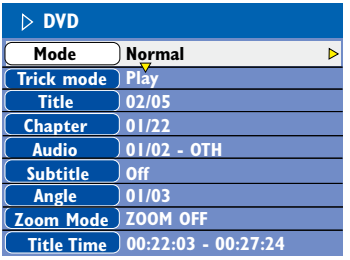
TIPS: The operating features described here might not be possible for certain discs. Always refer to the instructions supplied with the discs.

Additional Playback Features (continued)

Using Options



1 During playback, press **OPTIONS** on the remote control.
➔ The playback menu appears on the TV.



2 Use ▲▼ keys to select the setting you want to adjust.
➔ Instructions and explanation of the options are provided in the following pages.

3 To exit, press **OPTIONS.**

Selecting various repeat functions

You can select various repeat play or random play mode during playback.

1 During disc playback, press **OPTIONS** on the remote control.
➔ The playback menu appears.

2 Use ▲▼ keys to select { **Mode** } and press **OK**.

3 Use ▲▼ keys to select one of the repeat options.

{ **Normal** }
Select this to cancel the repeat mode and return to normal playback.

{ **Repeat A-B** }
Select this to repeat the playback of a specific segment within a title/chapter/track. Press **OK** to mark the start and end of the segment you want to repeat.

{ **Repeat Chapter** }
Select this to repeat playback of the current chapter.

{ **Repeat Track/Title** }
Select this to repeat playback of the current track/title.

{ **Repeat Directory** }
Select this to repeat playback of the current folder/directory (MP3, JPEG, picture disc only.)

{ **Repeat Disc** }
Select this to repeat playback of the entire disc.

{ **Shuffle** }
Select this to randomly playback all the tracks within the disc.

{ **Edit playback** }
Select this to playback by following the order user set.

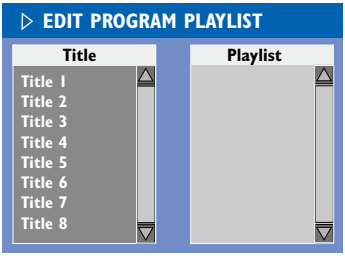
4 To cancel repeat playback, press **STOP■**, then press **PLAY/PAUSE**. Alternatively, press **OPTIONS** select "Trick mode",and press **OK**.

TIPS: The operating features described here might not be possible for certain discs. Always refer to the instructions supplied with the discs.

Programming disc tracks

You can play the contents of the disc in the order you want by programming the tracks to be played.

1. Press **OPTIONS** on the remote control.
   ➔ The playback menu appears.
2. Select { **Mode** } > { **Program** .} except MP3 and MPEG
   ➔ The program menu appears.



3. If the disc is recorded with Titles/Folders/ Albums, press **OK** to access the tracks/ files/chapters.

- Pressing **OK** at the highlighted track/file/ chapter will start playback.
- Use ◀ ▶ keys to toggle between the left and right screen.

To program your favourite track/ file/chapter

4. Use ▲▼ keys to select the track/file/ chapter to program and press **SELECT/ CLEAR** on the remote control.
   ➔ The selected track/file/title will appear at the right screen.
   ➔ The order on the right screen will be the order of program playback.

To remove the programmed item from your selection

5. Press ▶ key to move to the right screen. Use ▲▼ keys to select the track/file/ chapter to program and press **SELECT/ CLEAR** on the remote control.

To start program play

6. Press ▶ key to move to the right screen and press **OK.**
   ➔ Playback will start from the selected track/ file/ chapter according to the programmed sequence.

To exit program play

7. Press **STOP** ■ to exit program play.

Changing the audio soundtrack language

This operation works only on DVDs with multiple soundtrack language or VCDs with multiple audio channels.

Press **OPTIONS** key on remote control to select"Audio lang"under"sound effect" also press the **AUDIO** key to select it.
➔ The languages may be numbered or abbreviated, such as "En" for English.
➔ If the language selected is not available on the disc, the disc's default setting for language will be used instead.

Helpful Hint:
– Some DVDs allow Audio language changes only via the DVD disc menu. To access the disc menu, press DVD on the remote control.

TIPS: The operating features described here might not be possible for certain discs. Always refer to the instructions supplied with the discs.

Additional Playback Features (continued)

Changing subtitle language

This operation works only on DVDs with multiple subtitle languages, you can change the language you want while playing back the DVD.

1. Press **OPTIONS** on the remote control.
   ➔ The playback menu appears.
2. Use ▲▼ keys to select { **Subtitle** } and press ▶ to enter the menu and find the different available options.
3. Use ▲▼ keys to select the Subtitle and press **OK** to confirm.
   ➔ The Subtitle may be numbered or abbreviated, such as "En" for English.
   ➔ If the Subtitle selected is not available on the disc, the disc's default setting Subtitle will be used instead.

Helpful Hint:
– Some DVDs discs allow subtitle language changes only via the DVD disc menu. To access the disc menu, press DVD.

Switching camera angles

This option is only available with DVDs that contain sequences recorded from different camera angles. This allows you to view the picture from different angles.

1. Press **OPTIONS** on the remote control.
   ➔ The playback menu appears.
2. Use ▲▼ keys to select { **Angle** } and press ▶ to enter its options.
   ➔ The camera angles available for selection appears.
3. Use ▲▼ or 0-9 keys to select the camera angle you want to switch to, then press **OK** to confirm.

Time search

Press **INFO** key to display a information bar ,then select { **chapter or disc time** }when the disc time operations is required, to input the preferred time point , then press **OK** to search.

TIPS: The operating features described here might not be possible for certain discs. Always refer to the instructions supplied with the discs.

About HDD title edit menu

In the HDD title edit menu, you can change the title name, hide unwanted scenes, delete titles, split a title or change the title index picture.

The edit options in the HDD title edit menu are:

{ **Play Title** }
– Select a title (recording) to play.

{ **Rename** }
– Change the name of a title (recording).

{ **Divide Title** }
– Divide the recording into two separate titles.

{ **Edit Title** }
– Hide the unwanted scene in the recording

{ **Combine**}
– combine the titles that have same quality and Type.

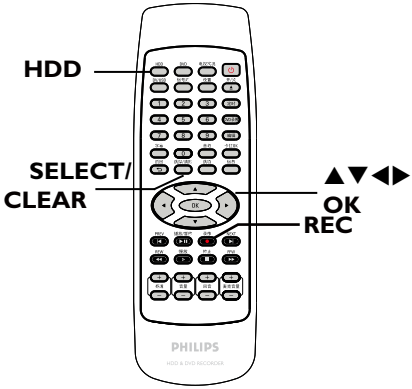
{ **Change index image**}
– Set current image and make it to be index picture.

{ **Delete Title**}
(For unprotected and unlocked titles only)
– Delete the title (recording).

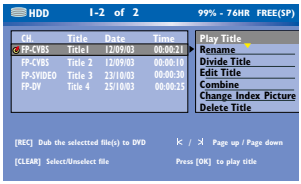
{ **Lock/ Unlock** }
– Lock or unlock a title (recording) to prevent/allow playback.

{ **Protect/ Unprotect** }
– Protect or unprotect a title (recording) to prevent/allow erasure or changes being made.

Accessing the HDD title edit menu



1. Press **HDD** on the remote control.
   ➔ The HDD content menu appears.
2. Use ▲▼ keys to highlight a title (recording) and press ▶.
   ➔ The HDD title edit menu appears.



- If you have many HDD title recordings, use ⏮ (fast reverse) or ⏭ (fast forward) to view the previous/ next page of HDD titles for selection.

3. Use ▲▼ keys to access the different options and press **OK**.
   ➔ Instructions and explanation of the options are provided in the following pages.
4. To exit, press ◀ to go back to the HDD title menu screen.

Note: Any title/ recording which has been edited will be marked with an edited icon next to the selected title's index picture.

TIPS: Press ◀ to go back to the previous menu.

Edit Recordings - HDD (continued)

Dividing a Title

You can divide the current title into two new titles. Each of these titles is characterized by its own index picture.

Warning! Once a title is divided, the process cannot be reversed.

1. In HDD title edit mode, use ▲▼ |◀ ▶| ◀◀▶▶keys to highlight { **Divide Title** } and press **OK**.
   ➔ The edit title playback screen appears.
2. During playback, use ◀▶ keys to navigate through the title. Press **OK** to divide the title at the desired playback position.
   ➔ A warning message will appear.
3. To confirm, select OK in the menu and press **OK**.
   ➔ A new title will be shown in the HDD title menu.
4. To abort, select CANCEL and press **OK**.

Hiding/ unhiding unwanted scenes

You can choose to hide certain scenes from playback (e.g. skipping a commercial scene) or make it visible again.

1. Press EDIT ,In edit mode, use ▲▼ keys to highlight { **EDIT Title** } and press **OK**.
2. During playback, press ◀ or ▶and use ◀◀ ▶▶ keys to navigate through the title. Press **OK** to mark the beginning of a segment to hide.
3. Press **OK** again to mark the end of segment to hide.

- To hide more segments, repeat steps 2 to 3 for each segment you want to hide.

To unhide the scenes,

4. In HDD title edit mode, use ▲▼ keys to highlight { **Edit Title** } and press **OK**.
   ➔ The edit title playback screen appears.
5. During playback, use ◀▶ ◀◀▶▶keys to navigate through the title. Press **OK** at the beginning of the marked segment.
6. Then go to the end of marked sagment,and press **OK** key to cancel hidden picture,or press "**SELECT/ CLEAR**" to cancel it.

Helpful Hints:
– All hidden scenes will be played back in HDD title edit mode.
*– The { **Edit Title** } option is only available if the title is unlocked or unprotected.*

HDD title dubbbing is recorded onto discs

1. place the recordable disc into tray.
2. Press HDD key to enter the list for HDD title.
3. Press **SELECT/CLEAR** key to select the files named dubbing.
4. Press **REC** key to have the "dubbing" recorded onto the discs.

Helpful Hints:
– The format of dubbing must be conform with the format of disc for recording use.

Rename a title

The original title name is automatically generated by the recorder. You can change the disc name by following the steps below.

1. In HDD title edit mode, use ▲▼ keys to highlight { **Rename** } and press **OK**.
   ➔ The keyboard screen appears.

TIPS: Press ◀ to go back to the previous menu.

2 Use ◀ ▶▲▼ keys to highlight a character on the keyboard and press **OK** to select.
➔ The maximum input is 12 characters displayed at any one time in the HDD title menu.

- You can use the following keys on the keyboard screen to edit your input:

  BkSp : to remove a character to the left of the cursor.
  Space : to create a space between characters.
  Aa : to toggle between upper and lower case characters .
  Clear : to clear the entry field completely.
  Exit : to exit the keyboard screen.

3 To confirm your entry, select OK on the keyboard and press **OK**.
➔ The info panel is now updated.

- To exit, select Exit on the keyboard and press **OK**.

Combine title

1 In HDD title list, move the cursor to select the required video files.In the list to edit title, press **UP/DOWN** key to select "combine' and then press **OK**.

2 The unit will list all of the files that is conform with selected ones and items that can be combined for your selection.

3 Select one from the list and press **OK** to combine titles.

Erase the title

1 In the HDD list, move the cursor to the video files to be erased.In the list to edit title, press **UP/DOWN** to select the title.

2 Press **OK** to erase the title.

Update the picture for title index

1 Change the PREVIEW mode to Mute.

2 In HDD title list, move the cursor to video files whose index picture will be changed; in the list to edit title, press **UP/DOWN** key to choose(update the picture for title index), then will enter the playback status

3 During playing, press **OK** to select preferred pictures as the new index picture.

Lock/Unlock a title

You can choose to lock a title to prevent any unauthorized playback of the recording.

If a title has been locked, the user will be prompted to enter a 4-digit password preset in the system setup menu.
For details, see "Parental Rating Level."

- In HDD title edit mode, use ▲▼ keys to highlight { **Lock** } and press **OK**.
➔ The locked title will have a Lock icon next to its index picture.
➔ When the title is locked, the option in the HDD title edit menu will change to { **Unlock** .}

Protect/ Unprotect a title

You can choose to protect the title in order to prevent accidental loss of recordings.

- In HDD title edit mode, use ▲▼ keys to highlight { **Protect** } and press **OK**.
➔ The protected title will have a Safe Box icon next to its index picture.
➔ When the title is protected, the option in the HDD title edit menu will change to { **Unprotect** .}

TIPS: Press ◀ to go back to the previous menu.

Edit Recordings - Recordable DVD

About disc edit menu

This recorder offers various disc edit options for various disc types. You can change the disc content and settings of a DVD recordable disc from the disc editing menu. The edited contents may not be available if you play the disc on another DVD player.

The options in the disc editing menu may differ depending on the type of disc.

{ **Play** }
Start playing from the beginning of the disc.

{ **Rename Disc** }
Change the name of the disc.

{ **Erase Disc** } - DVD±RWs only
Erase all the recordings in the disc.

{ **Record New Title** }
Start recording from the last empty title in the disc.

{ **Overwrite Disc** } - DVD±RWs only
Start a new recording from the beginning of the disc, all the recorded content will be overwritten.

{ **Finalize Disc** } - DVD±R/-RWs only
Finalize the disc to enable playback on other DVD players. Further recording and editing to the disc are not allowed. It is not possible to unfinalize the disc.

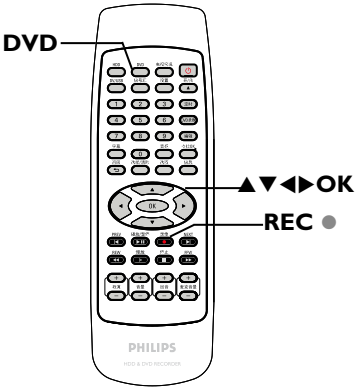
{ **Lock/Unlock Disc** } - DVD±RWs only
Lock or unlock a disc to prevent accidental erasure or changes being made.

{ **Unfinalize** } - DVD-RWs only
Unfinalize a DVD-RW disc to allow more recordings.

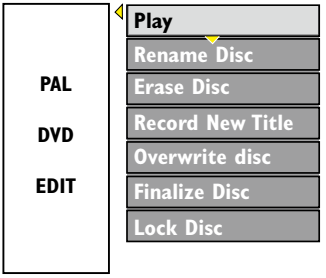
{ **Copy all** }

Copy all title.

Accessing disc editing menu



1. Insert a recorded DVD±R/±RW disc into the recorder.
   ➔ The Index Picture screen appears on the TV.
2. Select the first title on the disc, press and hold ▲ on the remote control.
   ➔ The disc editing menu appears. Press ▶ to access the options. The available editing options may vary for DVD±R and DVD±RW discs.



3. Use ▲▼ keys to access different options and **OK** to select.
   ➔ Instructions and explanation of the options are provided in the following pages.
4. To exit, press **DVD** to go back to the disc Index Picture screen.

TIPS: No further recording and editing can be carried out on a finalized recordable DVD.
Press **DVD** to return to the index picture screen.

Edit Recordings - Recordable DVD (continued)

Rename disc

The original disc name is generated automatically by the recorder. You can change the disc name by following the steps below.

1. In disc editing menu, use ▲▼ keys to select { **Rename Disc** } and press **OK**.
   ➔ The keyboard screen appears.
2. Use ◀ ▶▲▼ keys to highlight a character on the keyboard and press **OK** to select.
   ➔ The maximum input is up to 12 characters.

- You can use the following keys on the keyboard screen to edit your input:

  BkSp : to remove a character to the left of the cursor.
  Space : to create a space between characters.
  Aa : to toggle between upper and lower case characters .
  Clear : to clear the entry field completely.
  Exit : to exit the keyboard screen.

3. To confirm your entry, select OK on the keyboard and press **OK**.
   ➔ The info panel is now updated.

- To exit, select Exit on the keyboard and press **OK**.

Erase disc (DVD±RWs only)

This erases the content of the DVD±RW disc excluding those that was not recorded on this recorder. Once the existing content is erased, it can be used for recording.

1. In disc editing menu, use ▲▼ keys to select { **Erase Disc** } and press **OK**.
2. Select YES in the menu to proceed or NO, to abort, then press **OK** to confirm.

Helpful Hint:
– To erase content that cannot be played back on this recorder, please use the option {Erase Disc } under the SETUP MENU— HDD.

Record a new title

This function allows you to start a new recording at the remaining empty space in the DVD recordable disc.

1. In disc editing menu, use ▲▼ keys to select { **Record New Title** } and press **OK**.
2. Select the source you want to record from and press **REC** ● to start recording.

Overwrite disc (DVD±RWs only)

This function allows you to start a new recording from the beginning of a DVD±RW regardless of the contents of the disc.

1. In disc editing menu, use ▲▼ keys to select { **Overwrite disc** } and press **OK**.
2. Select the source you want to record from and press **REC** ● to start recording.

TIPS: No further recording and editing can be carried out on a finalized recordable DVD.
Press **DVD** to return to the index picture screen.

Edit Recordings - Recordable DVD (continued)

Lock/Unlock disc (DVD±RWs only)

You can choose to protect the recordings on the DVD±RW disc in order to prevent accidental loss of recordings.

1. In disc editing menu, use ▲▼ keys to select { **Lock Disc** } and press **OK**.
   ➔ The disc is locked for this DVD recorder only.
   ➔ When the disc is locked, the option in the disc editing menu will change to { **Unlock Disc** .}
2. If you want to overwrite or edit on the protected disc, select { **Unlock Disc** .}

Playing your recordings (DVD±R, DVD-RW) on other DVD players

It is necessary to finalize a DVD±R/-RW disc before you can play it on any other DVD player. Otherwise, the disc will only playback on this recorder.

After a DVD±R disc has been finalized, no further recordings or editing can be made to it. Make sure you have completed all the recordings and editing before finalizing the disc.

1. In disc editing menu, use ▲▼ keys to select { **Finalize Disc** } and press **OK**.
   ➔ A warning message will appear.
2. Select YES in the menu and press **OK** to start the process.
   ➔ Finalization will take a few minutes. Do not try to open the disc tray or turn the power off as this may render the disc unusable.
3. Select NO to abort.

Preparing your DVD-RW disc for more recordings

You may have to unfinalize the DVD-RW disc before recording new content it.

- In disc editing menu, use ▲▼ keys to select { **Unfinalize** }. Press **OK** to proceed.
  ➔ A warning message will appear. Select YES and press **OK** to proceed.
  ➔ The operation will take a few minutes. Do not disconnect the power during the process.
  ➔ Once complete, the Index Picture screen will appear on the TV.
  Your DVD-RW disc is now ready for more recordings.

Copy all

1. In the list to edit discs, press ▲▼ key to select "Copy All"and press **OK**.
2. Status bar/ Progress bar will be seen below the File Manager menu, then the contents on the discs will be copied into HDD.

TIPS: No further recording and editing can be carried out on a finalized DVD±R.
Press **DVD** to return to the index picture screen.

About DVD title editing

You can change the individual title information or delete a title (recording) on a recorded DVD disc. If the recordable DVD disc has been finalized, it cannot be edited.

The options in the title editing menu may differ depending on the type of disc.

{ **Play Title** }
Start playing a recording.

{ **Edit Title** }
Access video editing menu.

{ **Rename Title** }
Change the name of the recording.

{ **Erase Title** } - DVD±RWs only
Delete the title (recording.)

{ **Overwrite Title** } - DVD±RWs only
Start a new recording and the existing title (recording) will be overwritten.

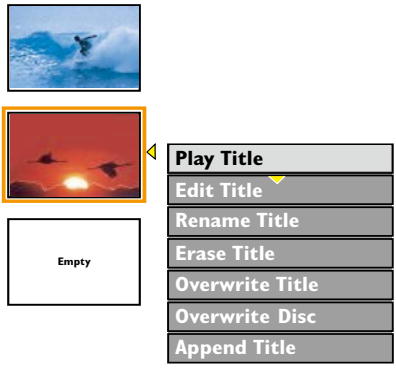
{ **Overwrite Disc** } - DVD±RWs only
Overwrite from existing selected title onwards to the end of the disc.

{ **Append Title** }
Insert a new recording to the last existing recording.

{ **COPY** }
Copy current files into HDD.

Accessing DVD title edit menu

1. Insert a recorded DVD±R/±RW disc into the recorder.
   ➔ The Index Picture screen appears on the TV.
   - During playback, press **DVD** to access the Index Picture screen.
2. Use ▲▼ keys to highlight a title (recording), and press ▶.
   ➔ The title editing menu appears.



3. Use ▲▼ keys to access different options and **OK** to select.
   ➔ Instructions and explanation of the options are provided in the following pages.
4. To exit, press ◀.

Editing video

This feature allows access to the video editing menu. See "About video editing" on pages 59 for more information.

- In title editing menu, use ▲▼ keys to select { **Edit Title** } and press **OK**.
  ➔ The video editing menu appears.
  ➔ The recorder will play the selected title.

TIPS: No further recording and editing can be carried out on a finalized DVD±R.
Press ◀ to go back to the previous menu.

Edit Recordings - Recordable DVD (continued)

Rename title

The original title name is generated automatically by the recorder. You can give a new name to the title by following the steps below.

1. In title editing menu, use ▲▼ keys to select { **Rename Title** } and press **OK**.
   ➔ The keyboard screen appears.
2. Use ◀ ▶ ▲▼ keys to highlight a character and press **OK** to select.
   ➔ The maximum input is up to 12 characters.

- You can use the following keys on the keyboard screen to edit your input:

  BkSp : to remove a character to the left of the cursor.
  Space : to create a space between characters.
  Aa : to toggle between upper and lower case characters .
  Clear : to clear the entry field completely.
  Exit : to exit the keyboard screen.

3. To confirm your entry, select OK on the keyboard and press **OK**.
   ➔ The info panel is now updated.

- To exit, select Exit on the keyboard and press **OK**.

Erase title

You can delete a specific title (recording) from the disc. However, for the DVD±RW disc, the deleted space cannot be used for further recording.

1. In title editing menu, use ▲▼ keys to select { **Erase Title** } and press **OK**.
   ➔ A warning message will appear.
2. Select YES in the menu to proceed or NO to abort, then press **OK** to confirm.

Overwrite title (DVD±RW only)

This function allows you to record a new title from the beginning of the current title in the DVD±RW disc.

1. In title editing menu, use ▲▼ keys to select { **Overwrite Title** } and press **OK**.
2. Select the source you want to record from and press **REC** ● to start recording.

Overwrite from the selected title

You can select to overwrite only the recordings from the selected title to the end of the disc.

1. In title editing menu, use ▲▼ keys to select { **Overwrite Disc** } and press **OK** to overwrite.
2. Select the source you want to record from and press **REC** ● to start recording.

Append recording

This function allows you to append recording to the last existing title.

1. In title editing menu, use ▲▼ keys to select { **Append Title** } and press **OK**.
2. Press **SOURCE** to select the input channel to append.
3. Press **REC** ● to start append recording.
4. To stop append recording, press **STOP** ■.

COPY

Copy selected title into HDD.

1. In title editing menu, use ▲▼ keys to select { **Copy** } and press **OK**.

TIPS: No further recording and editing can be carried out on a finalized DVD±R.
Press ◀ to go back to the previous menu.

About video editing

After a recording has been made, this recorder allows you to edit the video content. You can add/delete chapter marker, hide unwanted scenes, change the picture in the index picture screen and split a title (recording) into two.

When you playback a recording in video edit mode, the entire recording will be played back including hidden scenes.

The edit functions available in the disc editing menu are:

{ **Title** }
Select a specific title (recording) to play.

{ **Chapter** }
Select a chapter within the selected title.

{ **PLAY** }
Select play modes.

{ **Chapter Marker** }
Insert a chapter marker in the recording or erase a chapter marker to combine two chapters.

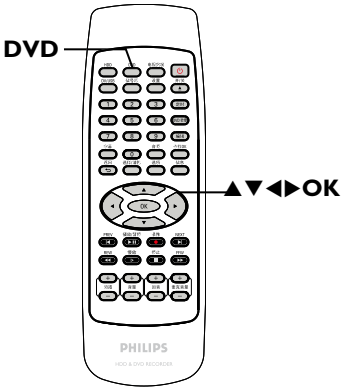
{ **Hide Chapter** }
Hide the unwanted scene in the recording.

{ **Index Picture** }
Select a scene in the recording as the index picture screen.

{ **Split Title** } - DVD±RWs only
Divide the recording into two under separate titles.

{ **T-Elapsed** }
Current elapsed time for title.

Accessing video editing menu



1. Insert a recorded DVD±R/±RW disc into the recorder.
   ➔ The Index Picture screen appears on the TV.
2. Use ▲▼ keys to highlight a title (recording), and press ▶ to access the menu.
   ➔ The title editing menu appears.
3. Use ▲▼ keys to select { **Edit Title** } and press **OK**.
   ➔ The edit mode menu appears.

4. Use ▲▼ keys to access different options and press **OK** to select.
   ➔ Instructions and explanation of the options are provided in the following pages.
5. To exit, press **DVD**, **STOP** ■ or **EDIT** keys.

TIPS: No further recording and editing can be carried out on a finalized DVD±R.
Press ◀ to go back to the previous menu.

Edit Recordings - Recordable DVD (continued)

Selecting a title

It shows the current title and the total number of titles in the disc. It also allows you to select another title.

1. In edit mode, use ▲▼ keys to select { **Title** } and press **OK**.
2. Use the **Numeric keypad 0-9** to key in a title and press **OK**.
   ➔ The recorder will play the selected title.

Selecting a chapter

It shows the current chapter and the total number of chapters in the title. It also allows you to select another chapter within the title.

1. In edit mode, use ▲▼ keys to select { **Play** } and press **OK**.
2. Use the **Numeric keypad 0-9** to key in the chapter and press **OK**.
   ➔ The recorder will play the selected chapter.

PLAY

You can use this option to control current playback.

1. In edit mode, use ▲▼ keys to select { **Chapter** } and press **OK**.

{ **Play** }- playback current title.

{ **Pause** }- pause current title.

{**FFWD×2**}/{**FFWD×4**}/{**FFWD×8**}/{ **FFWD×16** }/{ **FFWD×32** }- fast forward playbacks options.

{ **FREV×2** }/{ **FREV×4** }/{ **FREV×8**}/{ **FREV×16** }/{ **FREV×32** }- fast reverse playbacks options.

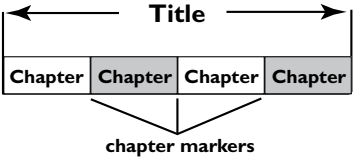
{**SLOW FWD×1/2**}/
{**SLOWFWD×1/8**}- slow forward playbacks options.

{**SLOW REV×1/2**}/

{**SLOW REV×1/8**}- slow reverse playbacks options.

Creating chapter markers

You can create a chapter by inserting chapter marker at any point within a title during playback. This will allow you to access a specific point in the recording easily or set a chapter you wish to hide.



1. In edit mode, use ▲▼ keys to select { **Chapter Marker** } and press **OK**.
2. Use ▲▼ keys to select one of the options and press **OK** to confirm.

{ **Insert Marker** }
Select this to insert a new chapter marker at the current point of playback.

{ **Delete Marker** }
Select this to delete the current chapter marker (it refers to the closest marker before the current point of playback.)
The current chapter will then combine with the chapter before it.

{ **Delete All Markers** }
Select this to delete all the chapter markers in the current title.

TIPS: No further recording and editing can be carried out on a finalized DVD±R.
Press ◀ to go back to the previous menu.

Hiding an unwanted chapter

You can choose to hide certain scenes from playback (e.g. skipping a commercial scene) or make it visible again.

1. Create a chapter marker at the scene you are going to hide. (See previous page on "Creating chapter markers".)
2. Select the chapter you want to hide and start playback. (See previous page on "Selecting a chapter".)
3. In edit mode, use ▲▼ keys to select { **Hide Chapter** } and press **OK**.
   ➔ The current chapter will be hidden.

To unhide a chapter

1. In edit mode, use ▲▼ keys to select { **Unhide Chapter** } and press **OK.**
   ➔ The video editing menu appears.
   ➔ While in editing mode, the hidden chapter/chapters will play.

Helpful Hint:
– All the hidden chapters will be played back while in video editing mode.

Changing Index Picture

The index picture is the picture of the title you will see when the recorder loads up the Index menu. Normally, the first frame of a recording is shown as the title's index picture.

1. In edit mode, use ▲▼ keys to select { **Index Picture** } and press **OK**.
2. Use ◀◀ ▶▶ keys on the remote control to search for the scene to use, then press **OK** to confirm the current scene as the index picture for the title.
   ➔The new index picture will be shown in the title menu.

Splitting a title (DVD±RWs only)

You can divide the current title into two new titles. Each of these titles will be characterized by its own index picture.

Warning! Once a title is divided, the process cannot be reversed.

- In edit mode, use ▲▼ keys to select { **Split Title** } and press **OK** to divide the title at the current playback position.
  ➔ A new title will be shown at the Index Picture screen.

T-Elapsed

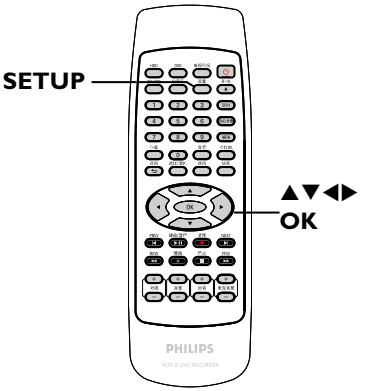
This option is only for displaying current elapsed time.

TIPS: No further recording and editing can be carried out on a finalized DVD±R.
Press ◀ to go back to the previous menu.

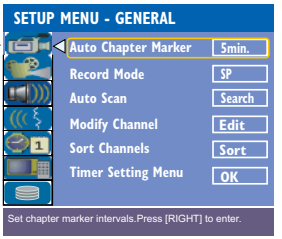
Setup Menu Options

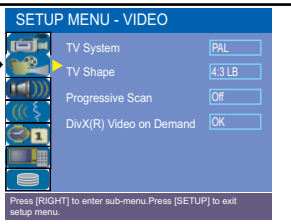
Accessing the Setup Menu

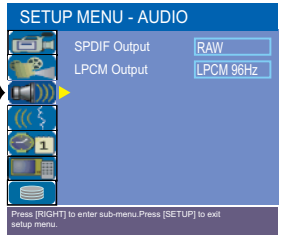
The setup menu provides various options for you to adjust the recorder to suit your preferences.

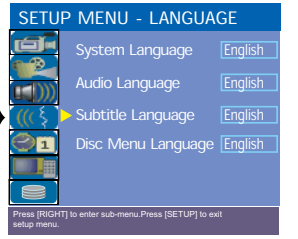


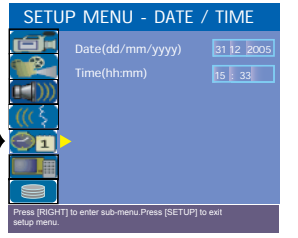
1. Press **SETUP** on the remote control.
   ➔ The setup menu appears on TV.
2. Use ▲▼ keys to highlight a setup option and press ▶ to access.
3. Use ▲▼ keys to highlight the setting you wish to change and press **OK** to confirm and go back to the previous menu item.
   ➔ Instructions and explanation of the options are provided in the following pages.
4. To exit, press **SETUP**.

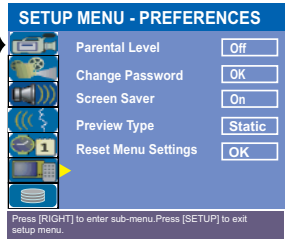


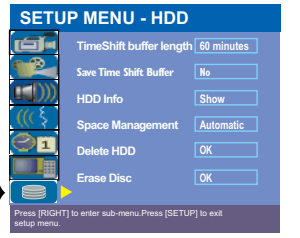

SETUP MENU - VIDEO
TV System PAL
TV Shape 4:3 LB
Progressive Scan Off
DivX(R) Video on Demand OK
Press [RIGHT] to enter sub-menu.Press [SETUP] to exit setup menu.




SETUP MENU - LANGUAGE
System Language English
Audio Language English
Subtitle Language English
Disc Menu Language English
Press [RIGHT] to enter sub-menu.Press [SETUP] to exit setup menu.




SETUP MENU - PREFERENCES
Parental Level Off
Change Password OK
Screen Saver On
Preview Type Static
Reset Menu Settings OK
Press [RIGHT] to enter sub-menu.Press [SETUP] to exit setup menu.


SETUP MENU - HDD
TimeShift buffer length 60 minutes
Save Time Shift Buffer No
HDD Info Show
Space Management Automatic
Delete HDD OK
Erase Disc OK
Press [RIGHT] to enter sub-menu.Press [SETUP] to exit setup menu.

English

VIDEO settings (underlined options are the factory default settings)

TV System

The colour system of the DVD system, DVD and TV should match. Only then will it be possible to play a DVD on this system. Before changing the TV system, determine the colour system of your TV.

- Press ▶ to access this menu and use ▲▼ keys to select one of the options.

{ **PAL** } – Select this if the connected TV has the PAL colour system. It will change the video signal of an NTSC disc and output it to PAL format.

{ **NTSC** } – Select this if the connected TV has the NTSC colour system. It will change the video signal of a PAL disc and output it to NTSC format.

TV Shape

The picture shape can be adjusted to fit your TV.

- Press ▶ to access this menu and use ▲▼ keys to select one of the options.

{ **4:3 LB** } – For a 'wide screen' options with black bars on the top and bottom of the screen.

{ **4:3 PS** } – For a full-height picture with sides trimmed.

{ **16:9 WS** } – For wide screen TV (frame ratio 16:9.)

Progressive Scan

Progressive scan delivers a higher picture quality than the standard interlaced TV channel scan. It only works when you have connected the recorder's Y Pb Pr jacks to your TV that supports the progressive video input. Otherwise, the image may not appear or will be distorted. Please check your TV user manual for more information.

- Press ▶ to access this menu and use ▲▼ keys to select one of the options.

{ **Off** } – Select this to disable progressive scan feature.

{ **On** } – Select this to enable progressive scan feature.

If a blank/distorted TV screen appears, wait for 10 seconds for the auto recovery.

DivX® Video on Demand

Philips provides you with the DivX® VOD (Video On Demand) registration code that allows you to rent and purchase videos using the DivX® VOD service. For more information, visit us at www.divx.com/vod.

1) Press **OK** to options the registration code.
2) Use the registration code to purchase or rent videos from DivX® VOD service at www.divx.com/vod. Follow the instructions and copy the video from your computer onto a CD-R/RW for playback on this recorder.

TIPS: The underlined option is the factory default setting.
Press ◀ to go back to previous menu item. Press **SETUP** to exit the menu.

Setup Menu Options (continued)

PREFERENCES settings (underlined options are the factory default settings)

Parental Level

Some DVDs may have a parental level assigned to the complete disc or to certain scenes on the disc. This feature lets you set a playback limitation level.

The rating levels range from 1 to 8 and are country dependent. You can prohibit the playing of certain discs that are not suitable for your children, or have certain discs played with alternative scenes.

- Press ▶ to access this menu and use ▲▼ keys to select one of the options.

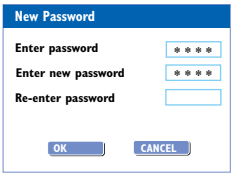
Rating explanations

{ **Off** } – Parental Control is not active.
{ **1. Kid Safe** }~{ **2. G** }
– Childsafe; acceptable for viewers of all ages.
{ **3. PG** } – Parental Guidance suggested.
{ **4. PG13** } – Unsuitable for children under age 13.
{ **5. PG R** }~{ **6. R** }
– Restricted; recommended that parents restrict children under 17 from viewing or allow to view only when supervized by a parent or adult guardian.
{ **7. NC 17** } – No children under age 17; not recommended viewing for children under age 17.
{ **8. Adult** } – Mature material; should be viewed only by adults due to graphic sexual material, violence or language.

DVDs that are rated higher than the level you have selected will not play unless you enter your four-digit pin code.

Change Password

This option allows you to change your password setting for parental control.



1. Use ▲▼ keys to highlight { **Change Password** } and press **OK**.
   ➔ You will be prompted to enter your four-digit pin code.
2. Use the **Numeric keypad 0-9** to enter your four-digit pin code.
   ➔ When doing this for the first time, enter the default password '3308'.
   ➔ If you forget your four-digit pin code, the default password is 3308.
3. Enter your new password.
4. Re-enter your new password and select OK , then press **OK** on the remote control to confirm.

Helpful Hint:
– General settings、language settings、date/time settings and HDD settings see page 25~28.

TIPS: The underlined option is the factory default setting.
Press ◀ to go back to previous menu item. Press **SETUP** to exit the menu.

PREFERENCES settings (underlined options are the factory default settings)

Reset Menu settings

- Press ▶ to reset the menu settings of this recorder.
  ➔ A warning message will appear. Select OK in the menu to proceed or CANCEL to abort, then press **OK** to confirm.

Screensaver

The screen saver prevents damage to the TV screen by avoiding exposure to a static image for too long.

- Press ▶ to access this menu and use ▲▼ keys to select one of the options.

{ **On** } – Select this if you wish to turn off the TV screen, after playback had been stopped or paused for more than 15 minutes.

{ **Off** } – Select this to disable the screen saver.

Preview Type

{ **Static** } –Select this to display a static picture in the HDD index preview menu.

{ **Dynamic** } –Select this to repeatedly plays 15 seconds of video in the HDD index preview menu.

AUDIO settings (underlined options are the factory default settings)

SPDIF Output

- Press ▶ to access this menu and use ▲▼ keys to select one of the options.

{ **RAW** } – Select this if you have used the recorder's **COAXIAL OUT** jack to connect to a multichannel receiver.

{ **LPCM** } – Select this if you have used the recorder's **COAXIAL OUT** jack to connect to a stereo or audio/video system.

LPCM Output

This setting allows you to select between two levels:

{ **LPCM 48 kHz**} – Select this if the connected audio device is capable of processing digital signal input with sampling rates of 48 kHz. In addition, the disc you are playing back must be recorded in 48kHz LPCM format.

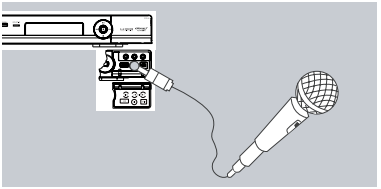
{ **LPCM 96 kHz**} – Select this if the connected audio device is capable of processing digital signal input with sampling rates of 96 kHz.In addition, the disc you are playing back must be recorded in 96kHz LPCM format.

TIPS: The underlined option is the factory default setting.
Press ◀ to go back to previous menu item. Press **SETUP** to exit the menu.

Karaoke Options

Playing a Karaoke disc,HDD Recording

1. Turn on the TV power. Select the correct Video In channel at the TV (See page 23 "Finding the correct viewing channel").
2. Connect a microphone(not supplied) to the MIC jack on the front panel of the DVD recorder.



3. Insert a karaoke disc and press **PLAY** ▶ button on the remote control.
   - If the disc menu appears, use ▲▼ or 0-9 keys buttons to make your selection and press **OK** to start playback.
4. Press **Karaoke** button on the remote control to turn on the Karaoke mode.

   Whilst enjoying your karaoke session,
   - To adjust the echo volume, press **ECHO +/-** button.
   - To adjust the microphone volume, press **MIC VOL +/-** button.
5. Press the **REC** button to record the information of discs and Karaoke to HDD, press **STOP** key to halt recording.

Helpful Hint:

– Press **HDD** *or* **TUNER** *button to end the KARAOKE.*

– Press **AUDIO** *button on the remote control to switch between left/right stereo output. (For karaoke VCDs only).*

– Set the microphone volume its minimum level to prevent howling when you connect the microphone.

– If mic volume is still too soft when compared to the disc playback volume, Press VOL+/- to lower the playback volume to balance the mic volume.

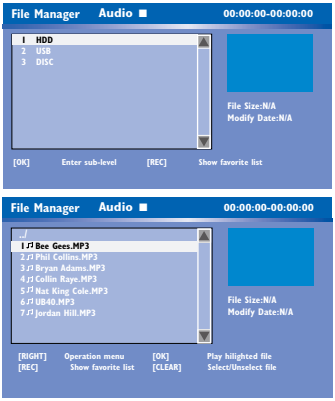
– This appliance can support recording simultaneously external signals resource and vocal of karaoke.

– Mic on DVD player is only applicable to input analogue signals resource. The resistence for recommended microphone is 60 ohm.

– This appliance can only support recording analogue signals, can not support recording digital signals.

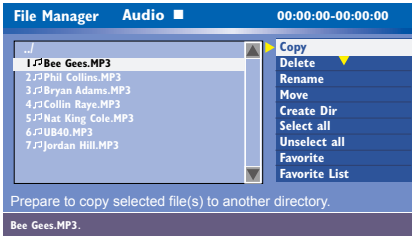
Playing USB file

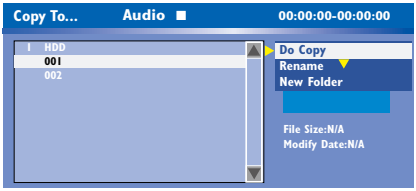
1. When an USB device is detected, an message will be displayed.This port is hot swappable and able to read from the following devices: Thumb drive or flash drive, Card readers for different kinds of cards.
2. If it is disc playing, you can select to play from the USB device by pressing the **DV/USB** button on the RC to access the File Manger Menu.Pressing **DV/USB** again will switch to DV source input state.
3. The File Manager menu is used to play multimedia files(music, photos, videos) on external USB devices, DVDs and on the internal HDD. The File Manager also allows the transfer of files between USB devices, DVDs and the internal HDD.
4. Navigating the File Manager is similar to navigating folders on a computer. There are three possible main folders,HDD, USB and DVD. These are all contained together in a single root folder.To go into a folder use the navigation buttons (see right)to select the folder and press the **OK** button. To go 'up' from a folder select the ../ symbol on the top of the list and press the **OK** button.



Transfer multimedia files from USB to HDD

1. Connect USB equipment.
2. Press the **DV/USB** button on the remote control to open the File Manager menu.
3. Use the ▲▼◀▶ buttons to find the copy address.
4. Use the▶ buttons to navigate in menus.
5. Press **OK** buttons to select "Copy".
6. Enter HDD file folder to find the copy address.
7. Use the▶ buttons to navigate in menus.
8. Press **OK** buttons to select "Do copy".





Helpful Hint:

– *The operation to transfer multimedia files from HDD to USB, disc to HDD, HDD to disc,USB to disc and disc to USB is similar as above.*

– Only"MP3、WMA、JPEG and DIVX"file can transfer.

– *The operation may be slow for transferring large file size between USB/HDD/DVD.*

– *USB connection supports only version 1.1*

Firmware Upgrade

Installing the latest firmware

Periodically, Philips will issue upgrades for the firmware that was initially installed in your recorder as the firmware is continuously refined for greater stability and compatibility of the recorder.

Caution! Power supply must not be interrupted during upgrade!

- Visit Philips' website at 'www.philips.com/support' to check for the availability of the latest firmware upgrade.

Note: When checking for the latest firmware upgrade, please also check for any accompanying instructions on installing the firmware.

WARNING
Under no circumstances should you try to repair the system yourself, as this will invalidate the warranty. Do not open the system as there is a risk of electric shock.

If a fault occurs, first check the points listed below before taking the system for repair. If you are unable to remedy a problem by following these hints, consult your dealer or Philips for help.

Problem	Solution
No power.	– Press **STANDBY-ON** button on the front of the recorder to turn on the system. – Make sure the **AC** outlet has power.
The recorder does not respond.	– There is a technical problem. Disconnect the recorder from the power outlet for 30 seconds, then reconnect and switch on the recorder again.
Remote control does not work.	– Aim the remote control directly at the iR sensor on the front of the recorder (not towards TV). – Remove any obstacles between the recorder and remote control. – Batteries are weak, replace the batteries.
No picture.	– Turn on your TV and set to the correct Video In channel for the recorder. You may go to Channel 1 on your TV, then press the channel down button on your TV's remote control until you see the TV program. – Check the video connection between the recorder and the TV. – Check if current status is P-Scan.if the cuurrent TV can not support P-Scan, press ejecting button and then press numeric keypad "5" to set TV to Interlace.
No sound.	– Check the recorder audio connections. Read chapter "Basic Recorder Connections - Connecting the audio cables" for details. – Set the option for Digital audio output correctly, based on the device you have connected to the recorder. Read chapter "Setup Menu Options - AUDIO settings" for details.
No TV signal received from the recorder.	– Have your antenna or cable TV signal checked. – Install the TV channel. Read chapter "Installation and Setup - Setting your TV channel programs" for details.
Disc will not play.	– Insert the disc with the label facing up. – Wrong region code. The DVD must be coded for ALL regions or Region 6 in order to play on this recorder. – There is no recording on the disc or it is not a supported type of disc. Read chapter "Playback from Disc - Playable discs" for details. – Make sure the disc is not scratched or warped. Clean the disc or replace a new one. – Check if the disc is defective by trying another disc.

Troubleshooting (continued)

Problem	Solution
The picture is distorted or black and white during playback.	– The disc does not match with the TV colour system standard (PAL/NTSC). – The disc is dirty, clean the disc. – Sometimes a small amount of picture distortion may appear. This is not a malfunction.
There is picture or sound interference with the TV reception.	– Have your antenna or cable TV signal checked. – Fine-tune your TV channel. Read chapter "Installation and Setup - Setting your TV channel programs" for details.
Distorted sound coming from a connected hi-fi system or amplifier.	– Do not connect any cables from the recorder to the 'Phono' input of your amplifier. – If you are playing a DTS CD, you have to connect the **COAXIAL** jack of this recorder to a Hi-Fi system or amplifier.
Recordings are not occurring as scheduled. New recordings cannot be made.	– The TV channel you want to record is not stored. Or, you may have selected the wrong program number. Check the TV channels stored. – You have to reset the timer recording after adjusting the clock setting. – You cannot use the recorder to duplicate copy-protected materials (DVDs or videotapes) onto a DVD recordable disc. – The hard disk could be full. Delete some titles to create space for new recordings.
The recorded DVD cannot be played back on another DVD player.	– If a recording is too short, it is possible that a DVD player/ recorder cannot detect it. Please observe the following 'minimum recording times'. Mode of record quality: {High Quality - HQ} – 13 minutes, {Standard Play - SP} – 25 minutes, {Standard Play Plus - SP+} – 31 minutes, {Long Play - LP} – 38 minutes, {Extended Play - EP} – 50 minutes, {Super Long Play - SLP} – 76 minutes. – You have to finalize the DVD±R,-RW&+R DL. Refer to chapter "Playing your recordings on other DVD players" for details.

The message 'UNKNOWN DISC' appears.	– This message may appear if you insert a disc that may have encountered one of the following:
	  – Error during recording: The title may be missing.
	  – Error while changing the title/index picture: The original title/ index picture may be visible.
	  – Error while finalizing or the disc has not been finalized.

Problem	Solution
Picture is fuzzy and brightness varies when copying DVD Video discs or prerecorded video cassettes.	– This happens if you try to copy DVDs or video cassettes that have been copy-protected. Even though the picture on the TV is fine, but the recording on the DVD recordable disc is faulty. This interference is unavoidable with copy-protected DVDs or video cassettes. – The DVD recordable disc has a limited recording lifetime, please change a new disc for recording.
The message 'This will clear the time shift buffer' appears.	– The requested action requires that the time shift buffer (temporary HDD storage) to be cleared. All contents that were not marked for recording will be deleted.
There is a power failure during the formatting of the recorder's HDD.	– You have to reformat the HDD again.
There is a power failure during the copying of files to a DVD±R disc.	– The titles that were previously recorded will be deleted and the space used for recording cannot be re-used. The disc can be used as a normal blank disc. You have to re-copy the files to the disc again.

Specifications

English

Video Recording
- Recording System: PAL / NTSC
- Compression formats: MPEG2
- Modes of Record Quality:

High Quality	: HQ
Standard Play	: SP
Standard Play Plus	: SP+
Long Play	: LP
Extended Play	: EP
Super Long Play	: SLP

- Recording enhancements:
  Auto Chapter Marker Insertion, Divide Title, Erase, Manual Chapter Marking, One Touch Record
- Audio compression: Dolby Digital

Video Playback
- Disc Playback Media: CD, CD-R/CD-RW, DVD, DVD-Video, DVD+R, DVD+RW, DVD-R, DVD-RW, DVD+R DL,Video CD, SVCD
- Compression formats: MPEG2, MPEG1, MPEG4, DivX
- Video disc playback system: PAL, NTSC

Audio Playback
- Disc Playback Media: MP3 Disc, CDDA, CD-R/ CD-RW,Super Audio CD
- Compression formats: Dolby Digital, DTS, MP3, PCM,
- MP3 bit rates: 32 - 320 kbps

Still Picture Playback
- Disc Playback Media: Picture CD
- Picture compression format: JPEG
- Picture enhancement: Rotate, Zoom, Slideshow

TV systems
- Playback: PAL/NTSC
- Recording: PAL/NTSC
- Internal tuner: PAL

Video Performance
- D/A Converter 10 bit, 54 MHz
- A/D Converter 10 bit, 27 MHz
- Picture Enhancement: Progressive Scan

Audio Performance
- DA Converter 24 bit, 192 kHz
- AD Converter 24 bit, 96 kHz
- Signal / Noise (1kHz) 90 dB
- Dynamic range (1kHz) 80 dB
- Crosstalk (1kHz) 90 dB

Tuner/Reception/ Transmission
- Receive TV signal : PAL(This set does not support NTSC)
- Aerial input: 75 ohm coaxial (IEC75)

Storage Media
- Recording :
  – DVD+R, DVD+RW, DVD-R, DVD-RW,DVD+R DL
- Hard Disk Capacity:
  – DVDR 3588H : 160GB
- HDD recording enhancements:
  – Instant Replay, Time Shift Buffer
- Extra Hard Disk Technology:
  – Pause Live TV, Simultaneous Record and Playback, Direct Record to HDD
- File Copying/Archiving:
  – HDD to DVD
  – HDD to USB
  – DVD to HDD
  – DVD to USB
  – USB to HDD
  – USB to DVD

Connectivity
- Rear Connections
  – S-video IN/OUT
  – Video (CVBS) IN/OUT
  – Antenna in/out(loop thru)
  – TV out
  – Digital audio out
    COAXIAL, OPTICAL.
  – Analog audio Left/Right in
  – YP_bP_r video OUT
  – YP_bP_r video IN

* *Hint: This set can support progressive and interleaved output but do not support progressive input.*

- Front Connections
  – i.LINK DV in (4 1394 4-pin)
  – Microphone
  – Video (CVBS) in
  – Analog audio left/right in
  – USB in(v.1.1)

Timer Recording
- Programmable events: 20
- Repeat modes: Once, Daily, Weekly, Mon-fri, Mon-sat, Weekend.

Options panel symbols/ messages

- Enhancement: Manual Timer

Convenience
- Direct Record to optical disc,HDD
- Child Protection: Parental Control

Power
- Power Supply:110V~240V, 50~60 Hz
- Power Consumption: 36 W
- Standby power consumption: < 5.0 W

Dimensions
- Set dimension (W x H x D) : 430 x 53 x 300 mm
- Set Weight : 4 kg

The following symbols/messages may appear on your recorder options:

- 00:00
  Multifunction options/ text line
  – Title/track number
  – Total/elapsed/remaining title/track time
  – Disc/title name
  – Additional information regarding the disc
  – TV channel number or source of video
  – Clock (This is option in Standby mode).
  – TV program title

- BLANK
  No recordings on the disc.

- UPDATE
  Please wait until the blinking message disappears. The disc is being formatted or data is being written to it.

- NO DISC
  No disc has been inserted. If a disc has been inserted, then it is possible that the disc cannot be read.

- OPEN
  Disc tray is opened or opening.

- LOADING
  Disc is being recognized by the recorder.

- PHILIPS
  The recorder has been turned on.

- SCAN
  Please wait until this message disappears. The recorder is busy processing an operation. XXX indicates the number of found channels, and is constantly updated

Glossary

Analog: Sound that has not been turned into numbers. Analog sound varies, while digital sound has specific numerical values. These jacks send audio through two channels, the left and right.

Aspect ratio: The ratio of vertical and horizontal sizes of a option image. The horizontal vs. vertical ratio of conventional TVs. is 4:3, and that of wide-screens is 16:9.

AUDIO OUT Jacks: Red and white jacks on the back of the system that send audio to another system (TV, Stereo, etc.)

Chapter: Sections of a picture or a music piece on a DVD that are smaller than titles. A title is composed of several chapters. Each chapter is assigned a chapter number enabling you to locate the chapter you want.

Component Video Out Jacks: Jacks on the back of the DVD System that send high-quality video to a TV that has Component Video In jacks (R/G/B, Y/Pb/Pr, etc.)

Digital: Sound that has been converted into numerical values. Digital sound is available when you use the DIGITAL AUDIO OUT COAXIAL. These jacks send audio through multiple channels, instead of just two channels as analog does.

Disc menu: A screen options prepared for allowing selection of images, sounds, subtitles, multi-angles, etc recorded on a DVD.

DivX 3.11/4.x/5.x: The DivX code is a patent-pending, MPEG-4 based video compression technology, developed by DivXNetworks Inc., that can shrink digital video to sizes small enough to be transported over the internet, while maintaining high visual quality.

Dolby Digital: A surround sound system developed by Dolby Laboratories containing up to six channels of digital audio (front left and right, surround left and right, center and subwoofer.)

Index Picture Screen: A screen that gives an overview of a DVD±RW or DVD±R. An Index Picture represents each recording.

JPEG: A very common digital still picture format. A still-picture data compression system proposed by the Joint Photographic Expert Group, which features small decrease in image quality in spite of its high compression ratio.

MP3: A file format with a sound data compression system. "MP3" is the abbreviation of Motion Picture Experts Group 1 (or MPEG-1) Audio Layer 3. By using the MP3 format, one CD-R or CD-RW can contain about 10 times more data then a regular CD.

MPEG: Motion Picture Experts Group. A collection of compression systems for digital audio and video.

Multichannel: DVDs are formatted to have each sound track constitute one sound field. Multichannel refers to a structure of sound tracks having three or more channels.

PBC: Playback Control. Refers to the signal recorded on video CDs or SVCDs for controlling playback. By using menu screens recorded on a Video CD or SVCD that supports PBC, you can enjoy interactive playback and searching.

PCM: Pulse Code Modulation. A digital audio encoding system.

Parental control: Limits disc play according to the age of the users or the limitation level in each country. The limitation varies from disc to disc; when it is activated, playback will be prohibited if the software's level is higher than the user-set level.

Region code: A system allowing discs to be played only in the region designated. This unit will only play discs that have compatible region codes. You can find the region code of your unit by looking on the product label. Some discs are compatible with more than one region (or ALL regions.)

S-Video: Produces a clear picture by sending separate signals for the luminance and the color. You can use S-Video only if your TV has an S-Video In jack.

Surround: A system for creating realistic three dimensional sound fields full of realism by arranging multiple speakers around the listener.

Title: The longest section of a movie or music feature on DVD. Each title is assigned a title number, enabling you to locate the title you want.

VIDEO OUT jack: Yellow jack on the back of the DVD system that sends the DVD picture video to a TV.